

Memorandum 4268

MSFC Global Reference

Model - 1990

(GRAM-90)

Program / Data Listings

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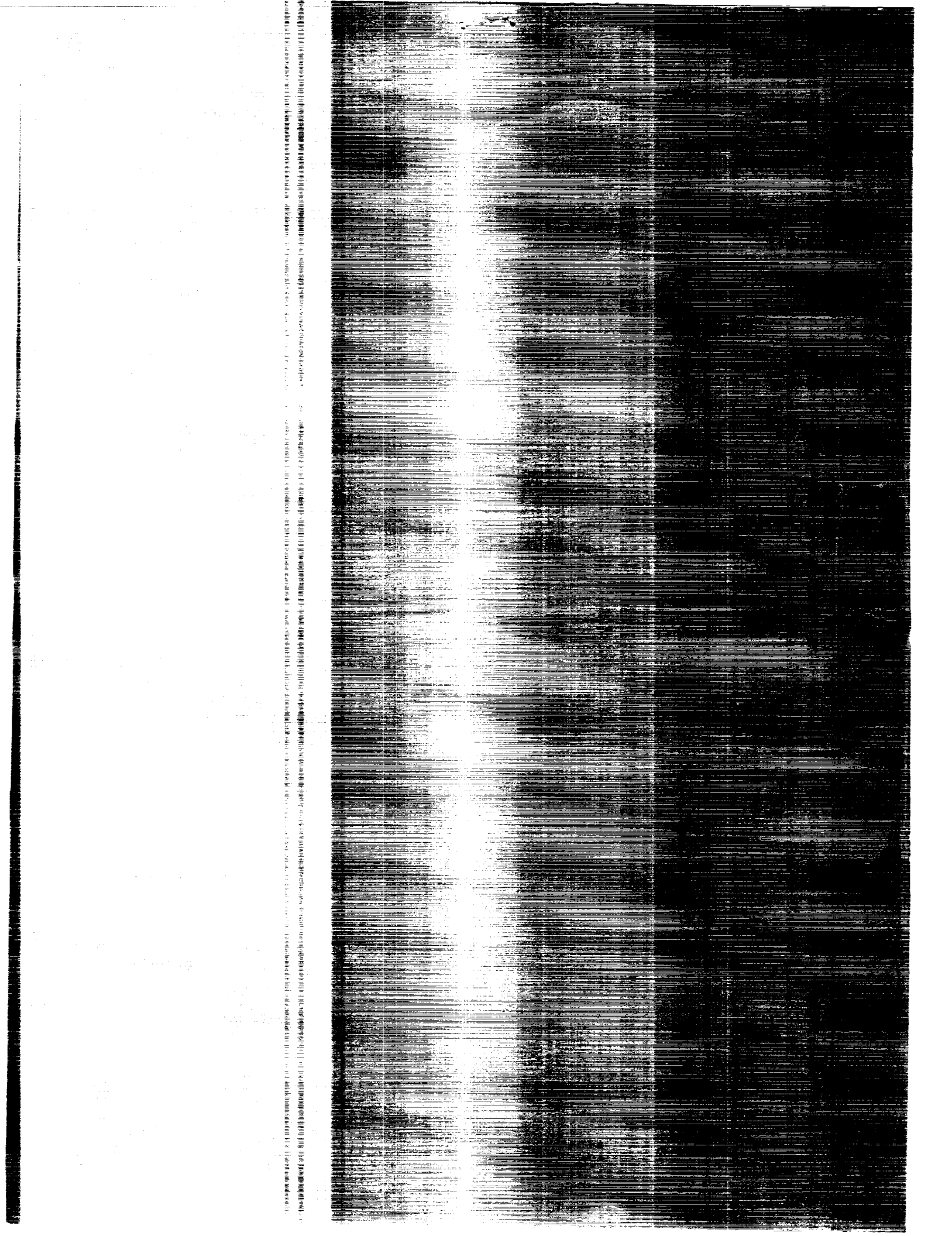
(NASA-1M-4268-Pt-2) THE NASA/MSFC GLOBAL
REFERENCE ATMOSPHERIC MODEL: 1990 VERSION
(GRAM-90). PART 2: PROGRAM/DATA LISTINGS
(NASA) B16 P

CSCL 048

H1/47

Unclas

0027246



NASA Technical Memorandum 4268
Part II

The NASA/MSFC Global Reference
Atmospheric Model—1990
Version (GRAM-90)

Part II: Program / Data Listings

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Scientific and Technical
Information Program

1991

PREFACE

The effort required to improve the NASA/MSFC Global Reference Atmospheric Model (GRAM) was sponsored by the Earth Science and Applications Division, Space Science Laboratory, NASA Marshall Space Flight Center, under the technical monitorship of Mr. Dale L. Johnson, the NASA COR. The modeling work was accomplished by the Georgia Institute of Technology, School of Earth and Atmospheric Sciences, under NASA grant NAG8-078. The effort was funded largely by NASA Headquarters Code M. New Technology, Inc. (NTI) coordinated the transfer of program, and program checkout, for use on the MSFC IBM computer.

This report presents the various GRAM-90 program code sequences as configured to operate on MSFC's IBM 3090 computer. Users should note that some of the code listings presented herein will require certain site-specific modifications to operate on other machines or configurations.

The first three listings start with the GRAM-90 program FORTRAN code, followed by an example of the IBM Job Control Language (JCL) code required to run the program and an example of resulting output. The next two listings start with a combined JCL and FORTRAN code sequence used to convert an individual monthly four-dimensional (4-D) data set to the direct access format required by the GRAM-90, followed by an example of the values for the variables found in each data record. Since even 1 month of the 4-D data base is extremely large, any complete listing becomes infeasible, and thus is omitted from this volume. However, the last listing is an output of the entire SCIDAT9 data base, which, though much more extensive than its predecessor, is hereby included in accordance with previous complete GRAM updates.

Key individuals who have either contributed toward the completion and testing of the GRAM-90 model (and/or report) are Steve Smith (MSFC) and Rhonda Blocker (BCSS). The technical work and user help information has been documented in part I of this report. Qualified requestors may obtain (purchase) copies of the computer program for this NASA/MSFC GRAM by contacting: COSMIC, the University of Georgia, 382 E. Broad St., Athens, GA 30602, telephone (404) 542-3265.

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TECHNICAL MEMORANDUM

THE NASA/MSFC GLOBAL REFERENCE ATMOSPHERIC MODEL—1990 VERSION (GRAM-90)

Part II: Program/Data Listings

1. GRAM-90 CODE

The following is a listing of the 1990 Global Reference Atmosphere Model (GRAM-90) FORTRAN program code. As in previous versions of the GRAM code (Justus et al. 1980), each segment of the program (main program, subroutine, function) has lines which are uniquely identified by a three- or four-character segment code coupled with a sequence number appearing at the extreme right of each line.

```

PROGRAM GRAM90                                GRAM 1
C FIRST DATA LINE READS INITIAL HEIGHT (KM), INITIAL LATITUDE (DEG) GRAM 2
C INITIAL LONGITUDE (DEG), F10.7, MEAN F10.7, AP, MONTH, DAY, GRAM 3
C YEAR (TOTAL YEAR - 1900), GREENWICH HOUR, MINUTES, SECONDS, GRAM 4
C LATITUDE INCREMENT (DEG), LONGITUDE INCREMENT (DEG), GRAM 5
C HEIGHT DECREASE (KM), MAXIMUM NUMBER OF POSITIONS (EXCLUDING GRAM 6
C INITIAL POSITION) TO BE COMPUTED, TIME INCREMENT BETWEEN GRAM 7
C POSITIONS, TRAJECTORY OPTION, OUTPUT OPTION, MINIMUM GEOSTROPHIC GRAM 8
C LATITUDE GRAM 9
COMMON /IOTEMP/IOTEM1,IOTEM2,IUS,DD,XM,JD,PHI1,PHI, GRAM 10
NSAME,RP1, RD1, RT1, SP1, SD1, ST1, RU1, RV1, SU1, SV1, GRAM 11
$ MN, IDA, IYR, H1, PHI1R, THET1R, G, RI, H, PHIR, THETR, F10, F10B, AP, GRAM 12
IHR, MIN, NMORE, DX, HL, VL, DZ, B, EPS, IOPP, LOOK, IET, GLAT, GRAM 13
1RP1S, RD1S, RT1S, RU1S, RV1S, SP1S, SD1S, ST1S, SU1S, SV1S, GRAM 14
2UDS1, VDS1, UDL1, VDL1, UDS2, VDS2, UDL2, VDL2 GRAM 15
COMMON /CHIC/LA(4,4), NB(2), IWSYM, USH, VSH, DUSH, DVSH GRAM 16
COMMON /WINCOM/DUMSTF(14), UPRE, VPRE, DUPRE, DVPRE GRAM 17
9090 FORMAT('1 ***** GLOBAL REFERENCE ATMOSPHERIC MODEL - 1990', GRAM 18
& ' (GRAM90) *****'/) GRAM 19
PI=3.1415927 GRAM 20
FAC=0.017453293 GRAM 21
LOOK=0 GRAM 22
MONTH=0 GRAM 23
IOPT=0 GRAM 24
H=0. GRAM 25
5 IF (IOPT.EQ.0.OR.(IOPT.GT.0.AND.H.LT.0.)) GO TO 6 GRAM 26
READ(IOPT,*) IET, H, PHI, THET GRAM 27
GO TO 5 GRAM 28
6 MN = MONTH GRAM 29
NSAME = 0 GRAM 30
READ(5,*,END=90) H1, PHI1, THET1, F10, F10B, AP, MN, IDA, IYR, IHR, MINO, GRAM 31
1 ISECO, DPHI, DTHET, DH, NMAX, INCT, IOPT, IOPP, GLAT GRAM 32
WRITE(6,9090) GRAM 33
IF (ABS(PHI1).LE.90.) GO TO 7 GRAM 34
PHI1=SIGN(180.-ABS(PHI1),PHI1) GRAM 35
THET1=THET1+180. GRAM 36
IF (THET1.GT.360.) THET1=THET1-360. GRAM 37
7 IF (THET1.LT.0.) THET1=THET1+360 GRAM 38
GLAT = ABS(GLAT) GRAM 39
IF (GLAT.LT.5.) GLAT = 5. GRAM 40
IF (GLAT.GE.18.) GLAT = 17.999 GRAM 41
GLATF=GLAT*FAC GRAM 42
WRITE(6,9010) H1, PHI1, THET1, F10, F10B, AP, MN, IDA, IYR, IHR, MINO, GRAM 43
$ ISECO, DPHI, DTHET, DH, NMAX, INCT, IOPT, IOPP, GLAT GRAM 44
C SET NSAME TO AVOID SETUP GRAM 45
15 IF (MN.EQ.MONTH) NSAME = 1 GRAM 46
C LOOKUP ON MULTIPLE PASSES GRAM 47
MONTH = MN GRAM 48
C CONVERT LATITUDE TO RADIANS GRAM 49
PHI1R=PHI1*FAC GRAM 50
C CONVERT LONGITUDE TO RADIANS GRAM 51
THET1R=THET1*FAC GRAM 52
C CONVERT LATITUDE INCREMENT TO RADIANS GRAM 53
DPHIR=DPHI*FAC GRAM 54

```

C	CONVERT LONGITUDE INCREMENT TO RADIANS	GRAM	55
	DTHETR=DTHET*FAC	GRAM	56
C	READ DATA FILE TO INITIALIZE ARRAYS	GRAM	57
	CALL SETUP	GRAM	58
	NT = 1	GRAM	59
	IF(IOPT.EQ.O) GO TO 18	GRAM	60
	READ(IOPT,*)IET,H,PHI,THET	GRAM	61
	IF(ABS(PHI).LE.90.) GO TO 16	GRAM	62
	PHI = SIGN(180.-ABS(PHI),PHI)	GRAM	63
	THET = THET + 180.	GRAM	64
16	IF(THET.LT.O.)THET=THET+360.	GRAM	65
	IF(THET.GT.360.) THET = THET - 360.	GRAM	66
	PHIR=PHI*FAC	GRAM	67
	THETR=THET*FAC	GRAM	68
	GO TO 19	GRAM	69
18	H = H1 - DH	GRAM	70
C....	DISPLACES POSITION BEFORE EVALUATION OF ATMOSPHERIC PARAMETERS	GRAM	71
	IET = INCT	GRAM	72
	PHIR=PHI1R+DPHIR	GRAM	73
	THETR=THET1R+DTHETR	GRAM	74
	IF (ABS(PHIR).LE.PI/2.) GO TO 17	GRAM	75
	PHIR = SIGN(PI-ABS(PHIR),PHIR)	GRAM	76
	DPHIR=-DPHIR	GRAM	77
	THETR = THETR + PI	GRAM	78
17	IF (THETR.GT.2.*PI) THETR = THETR - 2.*PI	GRAM	79
	IF (THETR.LT.O.) THETR = THETR + 2.*PI	GRAM	80
C	A=EQUATORIAL EARTH RADIUS, B=POLAR EARTH RADIUS	GRAM	81
C	EPS= EARTH ECCENTRICITY	GRAM	82
19	A = 6378.160	GRAM	83
	B = 6356.7747	GRAM	84
	EPS=(1.-(B*B)/(A*A))	GRAM	85
C....	COMPUTES RADIUS TO HEIGHT H, AND GRAVITY AT HEIGHT AND	GRAM	86
C	LATITUDE PHIR	GRAM	87
	CALL RIG	GRAM	88
	ISEC=ISECO+IET	GRAM	89
	ISEC=MOD(ISEC,60)	GRAM	90
	MIN = MINO + IET/60	GRAM	91
	IHR = IHRO + MIN / 60	GRAM	92
	MIN = MOD(MIN,60)	GRAM	93
C....	COMPUTES P,D,T,U,V AT FIRST POSITION AFTER INITIAL POSITION	GRAM	94
	IF(H1.LE.30.) LOOK=1	GRAM	95
	IF(ABS(PHIR).GT.GLATF) GO TO 195	GRAM	96
	IF((H.GE.30.O).AND.(H.LE.85.O))GOTO 195	GRAM	97
	PHI1S = PHI1R	GRAM	98
	PHIS=PHIR	GRAM	99
	DPHIS=(PHIR+GLATF)/(2.*GLATF)	GRAM	100
	PHIR=GLATF	GRAM	101
	PHI1R = PHIR + PHI1S - PHIS	GRAM	102
	CALL SCIMOD(O)	GRAM	103
	UP2=UPRE	GRAM	104
	VP2=VPRE	GRAM	105
	DUP2=DUPRE	GRAM	106
	DVP2=DVPRE	GRAM	107
	PHIR=-GLATF	GRAM	108

CALL SCIMOD(0)	GRAM 109
UP1=UPRE	GRAM 110
VP1=VPRE	GRAM 111
DUP1=DUPRE	GRAM 112
DVP1=DVPRE	GRAM 113
UPRE=UP1+(UP2-UP1)*DPHIS	GRAM 114
VPRE=VP1+(VP2-VP1)*DPHIS	GRAM 115
DUPRE=DUP1+(DUP2-DUP1)*DPHIS	GRAM 116
DVPRE=DVP1+(DVP2-DVP1)*DPHIS	GRAM 117
PHIR = PHIS	GRAM 118
PHIR=PHIS	GRAM 119
195 CALL SCIMOD(1)	GRAM 120
20 NT = NT + 1	GRAM 121
IF (IOPT.EQ.O) GO TO 22	GRAM 122
READ(IOPT,*)IET,H,PHI,THET	GRAM 123
IF(H.LT.O.)GO TO 5	GRAM 124
IF(ABS(PHI).LE.90.)GO TO 21	GRAM 125
PHI=SIGN(180.-ABS(PHI),PHI)	GRAM 126
THET=THET+180.	GRAM 127
21 IF(THET.LT.O.)THET=THET+360.	GRAM 128
IF(THET.GT.360.)THET=THET-360.	GRAM 129
PHIR=PHI*FAC	GRAM 130
THETR=THET*FAC	GRAM 131
GO TO 25	GRAM 132
C INCREMENT THE HEIGHT	GRAM 133
22 H = H1 - DH	GRAM 134
IF (H .LT. 0.0) GO TO 5	GRAM 135
C INCREMENT THE LATITUDE	GRAM 136
PHIR=PHIR+DPHIR	GRAM 137
C INCREMENT THE LONGITUDE	GRAM 138
THETR=THETR+DTHETR	GRAM 139
C.... READS NEW INPUT IF ABS(LAT) GTR 90 DEG	GRAM 140
IF (ABS(PHIR).LE.PI/2) GO TO 23	GRAM 141
PHIR=SIGN(PI-ABS(PHIR),PHIR)	GRAM 142
DPHIR=-DPHIR	GRAM 143
THETR=THETR+PI	GRAM 144
23 IF (THETR.GT.2.*PI) THETR = THETR - 2. * PI	GRAM 145
IF (THETR.LT.O.) THETR = THETR + 2. * PI	GRAM 146
C INCREMENT THE TIME	GRAM 147
IET=IET+INCT	GRAM 148
25 MIN=MINO+IET/60	GRAM 149
ISEC=ISECO+IET	GRAM 150
ISEC=MOD(ISEC,60)	GRAM 151
IHR=IHR0+MIN/60	GRAM 152
MIN=MOD(MIN,60)	GRAM 153
C COMPUTE RADIUS AND GRAVITY AT NEW POSITION	GRAM 154
CALL RIG	GRAM 155
C COMPUTE P,D,I,U,V, AT NEW POSITION	GRAM 156
IF(H1.GE.30.0.AND.H.LT.30.0)LOOK = 1	GRAM 157
IF(ABS(PHI).GT.75..AND.ABS(PHI1).LE.75.)LOOK = 1	GRAM 158
IF(ABS(PHIR).GT.GLATF) GO TO 80	GRAM 159
IF((H.GE.30.0).AND.(H.LE.85.0))GOTO 80	GRAM 160
PHI1S = PHI1R	GRAM 161
PHIS=PHIR	GRAM 162

DPHIS=(PHIR+GLATF)/(2.*GLATF)	GRAM 163
PHIR=GLATF	GRAM 164
PHI1R = PHIR + PHI1S - PHIS	GRAM 165
CALL SCIMOD(0)	GRAM 166
UP2=UPRE	GRAM 167
VP2=VPRE	GRAM 168
DUP2=DUPRE	GRAM 169
DVP2=DVPRE	GRAM 709
PHIR=-GLATF	GRAM 110
CALL SCIMOD(0)	GRAM 172
UP1=UPRE	GRAM 173
VP1=VPRE	GRAM 174
DUP1=DUPRE	GRAM 175
DVP1=DVPRE	GRAM 176
UPRE=UP1+(UP2-UP1)*DPHIS	GRAM 177
VPRE=VP1+(VP2-VP1)*DPHIS	GRAM 178
DUPRE=DUP1+(DUP2-DUP1)*DPHIS	GRAM 179
DVPRE=DVP1+(DVP2-DVP1)*DPHIS	GRAM 180
PHIR=PHIS	GRAM 181
PHI1R = PHI1S	GRAM 182
80 CALL SCIMOD(1)	GRAM 183
C	GRAM 184
C.....READS NEW INPUT IF NMORE = 0 OR MAX POINTS COMPUTED	GRAM 185
IF(NMORE.EQ.O.OR.(IOPT.EQ.O.AND.NT.GE.NMAX)) GO TO 5	GRAM 186
C CYCLE TO NEW POSITION	GRAM 187
GO TO 20	GRAM 188
90 STOP	GRAM 189
9010 FORMAT(' INITIAL HEIGHT = ',F7.2,' KM',T43,' INITIAL LAT = ',	GRAM 190
1 F6.2,' DEG',T83,' INITIAL WEST LON = ',F6.2,' DEG',/,', F10.7 = ',	GRAM 191
2 F8.2,T43,' MEAN F10.7 = ',F7.2,T83,' AP = ',F8.2,/,', DATE = ',	GRAM 192
3 I2,/,',I2,/,',I2,T43,' GREENWICH TIME = ',I2,/,',I2,/,',I2/,	GRAM 193
4 ' LAT INCREMENT = ',F6.2,' DEG',T43,' WEST LON INCREMENT = ',	GRAM 194
5 F6.2,' DEG',T83,' HEIGHT INCREMENT = ',F7.2,' KM',/,	GRAM 195
6 ' MAXIMUM NUMBER OF POSITIONS = ',I4,T43,' TIME INCREMENT = ',	GRAM 196
7 I4,' SEC',/2X,' TRAJECTORY OPTION = ',I4,T43,' OUTPUT OPTION = ',	GRAM 197
8 I2,T83,' MIN GEOSTROPH LAT = ',F5.1,/))	GRAM 198
END	GRAM 199
COMMON/C4/DUN1(32),NG,P(16,26),D(16,26),T(16,26),SP(16,26)	ADJU 2
\$,SD(16,26),ST(16,26),DU1,DU2,HS	ADJU 3
COMMON/ADJCOM/A(26,3), B(26), X(26), KOUNT	ADJU 4
DIMENSION PQ(26), QQ(26), UC(26), VC(26), WC(26), U(26), V(26),	ADJU 5
\$ W(26)	ADJU 6
C ASSUMPTIONS:	ADJU 7
C HS IS THE SURFACE LEVEL	ADJU 8
C ALL DATA VALUES ABOVE SURFACE LEVEL ARE IN 1 KM INCREMENTS	ADJU 9
E1=0.075	ADJU 10
E2=0.150	ADJU 11
MAXIT=3	ADJU 12
KSMAX=10	ADJU 13
HSJ = HS	ADJU 14
IF (HS.LT.O.) HSJ = 0.	ADJU 15
JJ=INT(HSJ+2.)	ADJU 16
ISS=1	ADJU 17
CONST=28703./980.665	ADJU 18
N=26	ADJU 19
ITER=0	ADJU 20

UC(1)=SQRT(ABS(SP(KOUNT,1)))	ADJU	21
VC(1)=SQRT(ABS(SD(KOUNT,1)))	ADJU	22
WC(1)=SQRT(ABS(ST(KOUNT,1)))	ADJU	23
DO 5 I=JJ,N	ADJU	24
UC(I)=SQRT(ABS(SP(KOUNT,I)))	ADJU	25
VC(I)=SQRT(ABS(SD(KOUNT,I)))	ADJU	26
5 WC(I)=SQRT(ABS(ST(KOUNT,I)))	ADJU	27
NM=N-1	ADJU	28
NP=N+1	ADJU	29
C.....SETS UP QUADRATURE FACTORS	ADJU	30
PQ(1)=500.*(FLOAT(INT(HSJ+1.))-HS)/(CONST*T(KOUNT,1))	ADJU	31
QQ(1)=500.*(FLOAT(INT(HSJ+1.))-HS)/(CONST*T(KOUNT,JJ))	ADJU	32
DO 15 I=JJ,NM	ADJU	33
IP=I+1	ADJU	34
PQ(I)=500./(CONST*T(KOUNT,I))	ADJU	35
15 QQ(I)=500./(CONST*T(KOUNT,IP))	ADJU	36
GO TO 58	ADJU	37
12 NM=N-1	ADJU	38
NP=N+1	ADJU	39
DO 14 I=1,26	ADJU	40
U(I)=UC(I)*UC(I)	ADJU	41
V(I)=VC(I)*VC(I)	ADJU	42
W(I)=WC(I)*WC(I)	ADJU	43
14 CONTINUE	ADJU	44
C.....INITIALIZE A(I,J)	ADJU	45
DO 20 I=1,26	ADJU	46
DO 20 J=1,3	ADJU	47
20 A(I,J)=0.	ADJU	48
C.....SETS UP COEFFICIENTS	ADJU	49
I2=0	ADJU	50
DO 35 I=1,NM	ADJU	51
IF(I.GT.1.AND.I.LT.JJ) GO TO 35	ADJU	52
AW=1./SP(KOUNT,I)	ADJU	53
BW=1./SD(KOUNT,I)	ADJU	54
CW=1./ST(KOUNT,I)	ADJU	55
IM=I-1	ADJU	56
IF(I.EQ.JJ) IM=1	ADJU	57
IP=I+1	ADJU	58
IF (I.EQ.1) IP=JJ	ADJU	59
I2=I2+1	ADJU	60
AW1=1./SP(KOUNT,IP)	ADJU	61
BW1=1./SD(KOUNT,IP)	ADJU	62
CW1=1./ST(KOUNT,IP)	ADJU	63
IF(I.EQ.1) GO TO 25	ADJU	64
A(I2,1)=-((1.-QQ(IM))*(1.+PQ(I))/AW+(1./BW+1./CW)*PQ(I)*QQ(IM)	ADJU	65
25 A(I2,2)=-((1.-QQ(I))*2)/AW1+((1.+PQ(I))*2)/AW+(1./BW+1./CW)	ADJU	66
\$ *(PQ(I))*2)+(1./BW1+1./CW1)*QQ(I))*2	ADJU	67
IF(I.EQ.NM) GO TO 30	ADJU	68
A(I2,3)=-((1.-QQ(I))*(1.+PQ(IP))/AW1+(1./BW1+1./CW1)*	ADJU	69
\$ PQ(IP)*QQ(IP)	ADJU	70
30 B(I2)=U(IP)-U(I)-(U(I)-V(I)+W(I))*PQ(I)-(U(IP)-V(IP)+W(IP))*QQ(I)	ADJU	71
35 CONTINUE	ADJU	72
CALL DIAGEQ(I2)	ADJU	73
C.....FINDS CORRECTIONS	ADJU	74

AW=1./SP(KOUNT,1)	ADJU 75
BW=1./SD(KOUNT,1)	ADJU 76
CW=1./ST(KOUNT,1)	ADJU 77
UC(1)=SQRT(ABS(U(1)+X(1)*(1.+PQ(1))/AW))	ADJU 78
VC(1)=SQRT(ABS(V(1)-X(1)*PQ(1)/BW))	ADJU 79
WC(1)=SQRT(ABS(W(1)+X(1)*PQ(1)/CW))	ADJU 80
AW=1./SP(KOUNT,N)	ADJU 81
BW=1./SD(KOUNT,N)	ADJU 82
CW=1./ST(KOUNT,N)	ADJU 83
UC(N)=SQRT(ABS(U(N)-X(I2)*(1.-QQ(NM))/AW))	ADJU 84
VC(N)=SQRT(ABS(V(N)-X(I2)*QQ(NM)/BW))	ADJU 85
WC(N)=SQRT(ABS(W(N)+X(I2)*QQ(NM)/CW))	ADJU 86
I2=1	ADJU 87
DO 40 I=JJ,NM	ADJU 88
I2=I2+1	ADJU 89
I2M=I2-1	ADJU 90
AW=1./SP(KOUNT,I)	ADJU 91
BW=1./SD(KOUNT,I)	ADJU 92
CW=1./ST(KOUNT,I)	ADJU 93
IM=I-1	ADJU 94
IF(I.EQ.JJ)IM=1	ADJU 95
UC(I)=ABS(U(I) +(-X(I2M)*(1.-QQ(IM))+X(I2)*(1.+PQ(I)))/AW)	ADJU 96
VC(I)=SQRT(UC(I))	ADJU 97
VC(I)=ABS(V(I) -(X(I2M)*QQ(IM)+X(I2)*PQ(I))/BW)	ADJU 98
VC(I)=SQRT(VC(I))	ADJU 99
WC(I)=ABS(W(I) +(X(I2M)*QQ(IM)+X(I2)*PQ(I))/CW)	ADJU 100
40 WC(I)=SQRT(WC(I))	ADJU 101
C.....GETS ADJUSTED VALUES	ADJU 102
C..... ADJUSTS ON TRIANGLE INEQUALITIES	ADJU 103
58 K=0	ADJU 104
DO 68 I=1,N	ADJU 105
IF(I.GT.1.AND.I.LT.JJ) GO TO 68	ADJU 106
AU=UC(I)	ADJU 107
AV=VC(I)	ADJU 108
AM=WC(I)	ADJU 109
AMAX=AMAX1(AU,AV,AM)	ADJU 110
EE=E1*AMAX	ADJU 111
EF=E2*AMAX	ADJU 112
AW=SP(KOUNT,I)	ADJU 113
BW=SD(KOUNT,I)	ADJU 114
CW=ST(KOUNT,I)	ADJU 115
COR=AU+AV-AM-EE	ADJU 116
DIV=AW+BW+CW	ADJU 117
IF(COR.GT.O.) GO TO 60	ADJU 118
COR=(AU+AV-AM-EF)/DIV	ADJU 119
AU=AU-COR*AW	ADJU 120
AV=AV-COR*BW	ADJU 121
AM=AM-COR*CW	ADJU 122
GO TO 64	ADJU 123
60 COR=AU-AV+AM-EE	ADJU 124
IF(COR.GT.O.) GO TO 62	ADJU 125
COR=(AU-AV+AM-EF)/DIV	ADJU 126
AU=AU-COR*AW	ADJU 127
AV=AV-COR*BW	ADJU 128

AM=AM-COR*CW	ADJU 129
GO TO 64	ADJU 130
62 COR=-AU+AV+AM-EE	ADJU 131
IF(COR.GT.O.) GO TO 66	ADJU 132
COR=(-AU+AV+AM-EE)/DIV	ADJU 133
AU=AU+COR*AW	ADJU 134
AV=AV-COR*BW	ADJU 135
AM=AM-COR*CW	ADJU 136
64 K=K+1	ADJU 137
66 UC(I)=AU	ADJU 138
VC(I)=AV	ADJU 139
WC(I)=AM	ADJU 140
68 CONTINUE	ADJU 141
KMAX=K	ADJU 142
100 IF((ITER.EQ.O).OR.(KMAX.NE.O)) GO TO 110	ADJU 143
GO TO 112	ADJU 144
110 ITER=ITER+1	ADJU 145
IF(ITER.LE.MAXIT) GO TO 12	ADJU 146
112 IF (ISS.NE.1) GO TO 999	ADJU 147
114 ITER=1	ADJU 148
ISS=2	ADJU 149
VTA=VC(1)	ADJU 150
WTA=WC(1)	ADJU 151
DO 120 I=JJ,NM	ADJU 152
IM=I-1	ADJU 153
IF(I.EQ.JJ)IM=1	ADJU 154
VTB=VC(I)	ADJU 155
WTB=WC(I)	ADJU 156
VC(I)=(VC(I+1)+2.*VTB+VTA)*O.25	ADJU 157
WC(I)=(WC(I+1)+2.*WTB+WTA)*O.25	ADJU 158
VTA=VTB	ADJU 159
WTA=WTB	ADJU 160
120 CONTINUE	ADJU 161
GO TO 12	ADJU 162
C.....CALCULATE THE CORRECTED VARIANCES	ADJU 163
999 DO 1010 I=1,N	ADJU 164
IF(I.GT.1.AND.I.LT.JJ) GO TO 1010	ADJU 165
SP(KOUNT,I)=UC(I)**2	ADJU 166
SD(KOUNT,I)=VC(I)**2	ADJU 167
ST(KOUNT,I)=WC(I)**2	ADJU 168
1010 CONTINUE	ADJU 169
RETURN	ADJU 170
END	ADJU 171
SUBROUTINE CHECK	CHEC 1
COMMON/CHK/P(4,4,3),RHO(4,4,3),NO(2)	CHEC 2
COMMON /WINCOM/DGH,FCORY,DX5,DY5,DUMMY(14)	CHEC 3
COMMON /CHIC/LA(16),NB(2),IWSYM,USH,VSH,DUSH,DVSH	CHEC 4
NB(1) = 0	CHEC 5
NB(2) = 0	CHEC 6
CALL GROUP	CHEC 7
NS=0	CHEC 8
NR=1	CHEC 9
IF(NO(1).EQ.O.AND.NO(2).EQ.O) GO TO 1000	CHEC 10
DO 640 KL=1,2	CHEC 11

IF (NO(KL).EQ.O) GO TO 640	CHEC	12
450 CONTINUE	CHEC	13
NNR=4*NR	CHEC	14
IF(NO(KL).LE.NNR) GO TO 500	CHEC	15
NR=NR+1	CHEC	16
GO TO 450	CHEC	17
500 CONTINUE	CHEC	18
I1=NR	CHEC	19
J1=NO(KL)-(NR-1)*4	CHEC	20
SH1 = 6.	CHEC	21
SH2 = 6.	CHEC	22
DP = P(I1,J1,2) - P(I1,J1,1)	CHEC	23
IF (DP) 510,520,510	CHEC	24
510 SH1 = ABS(P(I1,J1,2)/DP)	CHEC	25
520 DP = P(I1,J1,2) - P(I1,J1,3)	CHEC	26
IF (DP) 530,540,530	CHEC	27
530 SH2 = ABS(P(I1,J1,2)/DP)	CHEC	28
540 IF(SH1.LT.4.O.OR.SH2.LT.4.O) GO TO 640	CHEC	29
IF(SH1.GT.9.O.OR.SH2.GT.9.O) GO TO 640	CHEC	30
NR=1	CHEC	31
NS=NS+1	CHEC	32
640 CONTINUE	CHEC	33
RETURN	CHEC	34
1000 IWSYM = ICHAR('')	CHEC	35
RETURN	CHEC	36
END	CHEC	37
SUBROUTINE CORLAT(A,B,C,D,E,F,G,H,AI,AJ,AK,SP1,SP2,SD1,SD2,ST1,	CORL	1
1 ST2,SU1,SU2,SV1,SV2,UD1,UD2,VD1,VD2,RD,RT,RV)	CORL	2
IF(SD1*ST1*SD2*ST2*RD*RT*RV.GT.O.)GO TO 5	CORL	3
C.....DEFAULT VALUES AVOID DIVISION BY ZERO	CORL	4
IF(SD1.LE.O.) SD1=0.001	CORL	5
IF(ST1.LE.O.) ST1=0.001	CORL	6
IF(SD2.LE.O.) SD2=0.001	CORL	7
IF(ST2.LE.O.) ST2=0.001	CORL	8
IF(RD.LE.O.) RD = .00001	CORL	9
IF(RT.LE.O.) RT = .00001	CORL	10
IF(RV.LE.O.) RV = .00001	CORL	11
5 CONTINUE	CORL	12
IF (ABS(UD1).LE.O.) UD1 = 0.001	CORL	13
IF (ABS(VD1).LE.O.) VD1 = 0.001	CORL	14
IF (ABS(SU1).LE.O.) SU1 = 0.001	CORL	15
IF (ABS(SV1).LE.O.) SV1 = 0.001	CORL	16
IF (ABS(UD1).GE.1.) UD1 = 0.99*UD1/ABS(UD1)	CORL	17
IF (ABS(VD1).GE.1.) VD1 = 0.99*VD1/ABS(VD1)	CORL	18
A=RD*SD2/SD1	CORL	19
B=SD2*SQR(1-RD*RD)	CORL	20
TD2=(SP2*SP2-SD2*SD2-ST2*ST2)/(2*SD2*ST2)	CORL	21
TD1=(SP1*SP1-SD1*SD1-ST1*ST1)/(2*SD1*ST1)	CORL	22
IF(ABS(TD1).LE.O.) TD1=.001	CORL	23
IF(ABS(TD2).LE.O.) TD2=.001	CORL	24
IF(ABS(TD2).GE.1.O) TD2=0.99*TD2/ABS(TD2)	CORL	25
IF(ABS(TD1).GE.1.O) TD1=0.99*TD1/ABS(TD1)	CORL	26
C=(ST2/ST1)*(RT-RD*TD2*TD1)/(1-TD1*TD1*RD*RD)	CORL	27
D=(RT*ST2-C*ST1)/(A*TD1*SD1)	CORL	28

E=	ST2*ST2-C*C*ST1*ST1-D*D*SD2*SD2-2*C*D*RD*TD1*ST1*SD2	CORL	29
IF(E.GE.O.)	GO TO 10	CORL	30
E=O.		CORL	31
10 E=SQRT(E)		CORL	32
F=(SU2/SU1)*(RV-RD*UD2*UD1)/(1-RD*RD*UD1*UD1)		CORL	33
G=(RV*SU2-F*SU1)/(RD*UD1*SD2)		CORL	34
H=	SU2*SU2-F*F*SU1*SU1-G*G*SD2*SD2-2*F*G*RD*UD1*SD2*SU1	CORL	35
IF(H.GE.O.)	GO TO 15	CORL	36
H=O.		CORL	37
15 H=SQRT(H)		CORL	38
AI=(SV2/SV1)*(RV-RD*VD2*VD1)/(1-RD*RD*VD1*VD1)		CORL	39
AJ=(RV*SV2-AI*SV1)/(RD*VD1*SD2)		CORL	40
AK=	SV2*SV2-AI*AI*SV1*SV1-AJ*AJ*SD2*SD2-2*AI*AJ*RD*VD1*SD2*SV1	CORL	41
IF(AK.GE.O.)	GO TO 25	CORL	42
AK=O.		CORL	43
25 AK=SQRT(AK)		CORL	44
RETURN		CORL	45
END		CORL	46
FUNCTION CORREL(X)		CORR	1
DATA A,B/19.51615854,1.000416939/		CORR	2
RHO = 1./EXP(B*X)		CORR	3
IF(X.LT. 0.05) RHO = 1. - A*X**2		CORR	4
CORREL = RHO		CORR	5
RETURN		CORR	6
END		CORR	7
SUBROUTINE DIAGEQ(N)		DIAG	1
C A(I,J)=DIAG. TERMS, I=ROW NO., J=DIAG. NO.		DIAG	2
C B(I)=RIGHT SIDE TERMS		DIAG	3
C N=NO. OF ROWS		DIAG	4
C K=NO. OF BORDER DIAGONALS, M=K+1=INDEX OF PRIN. DIAG		DIAG	5
C 2KH=TOTAL NO. OF DIAGS.		DIAG	6
C X(I)=SOLUTION		DIAG	7
COMMON/ADJCOM/A(26,3),B(26),X(26),KOUNT		DIAG	8
K = 1		DIAG	9
M=K+1		DIAG	10
DO 30 L=1,N		DIAG	11
ALM=A(L,M)		DIAG	12
A(L,M)=1.		DIAG	13
IF(L.EQ.N) GO TO 15		DIAG	14
I2=MINO(K,N-L)		DIAG	15
DO 10 I=1,I2		DIAG	16
MPI=M+I		DIAG	17
10 A(L,MPI)=A(L,MPI)/ALM		DIAG	18
15 B(L)=B(L)/ALM		DIAG	19
IF(L.EQ.N) GO TO 30		DIAG	20
DO 25 I=1,I2		DIAG	21
LPI=L+I		DIAG	22
FACT=A(LPI,M-I)		DIAG	23
DO 20 J=1,I2		DIAG	24
MJI=M+J-I		DIAG	25
20 A(LPI,MJI)=A(LPI,MJI)-A(L,M+J)*FACT		DIAG	26
25 B(LPI)=B(LPI)-B(L)*FACT		DIAG	27
30 CONTINUE		DIAG	28
X(N)=B(N)		DIAG	29

NM1=N-1	DIAG	30
DO 50 L=1,NM1	DIAG	31
NML=N-L	DIAG	32
SUM=0.	DIAG	33
I2=MINO(K,L)	DIAG	34
DO 40 I=1,I2	DIAG	35
40 SUM=SUM+A(NML,M+I)*X(NML+I)	DIAG	36
50 X(NML)=B(NML)-SUM	DIAG	37
RETURN	DIAG	38
END	DIAG	39
SUBROUTINE FAIR(PG,DG,TG,PJ,DJ,TJ,IH,P,D,T,DPXG,	FAIR	1
& DPG,DPXJ,DPYJ,DPX,DPY,DTXG,DTYG,DTXJ,DTYJ,DTX,DTY)	FAIR	2
C.... FAIRS BETWEEN ZONAL MEANS AND JACCHIA VALUES 90 LE HEIGHT LE	FAIR	3
C 120 KM	FAIR	4
DIMENSION CZ(7)	FAIR	5
C..... FAIRING VALUES	FAIR	6
DATA CZ /1.0,0.9330127,0.75,0.5,0.25,0.0669873,0.0/	FAIR	7
C HEIGHT INDEX	FAIR	8
I =(IH - 85)/5	FAIR	9
C.... ZONAL MEAN FAIRING COEFFICIENT	FAIR	10
CZI = CZ(I)	FAIR	11
C JACCHIA FAIRING COEFFICIENT	FAIR	12
SZI = 1.0 - CZI	FAIR	13
C FAIRED TEMPERATURE	FAIR	14
T = TG*CZI + TJ*SZI	FAIR	15
C FAIRED DENSITY	FAIR	16
D = EXP(ALOG(DG)*CZI + ALOG(DJ)*SZI)	FAIR	17
C..... FAIRED GAS CONSTANT	FAIR	18
RG=PG/(DG*TG)	FAIR	19
RJ=PJ/(DJ*TJ)	FAIR	20
R=(CZI*RG) + (SZI * RJ)	FAIR	21
P= R*D*T	FAIR	22
DPX = DPXG*CZI + DPXJ*SZI	FAIR	23
C DP/DY FOR GEOSTROPHIC WINDS	FAIR	24
DPY=DPYG*CZI+DPYJ*SZI	FAIR	25
DTX = DTXG*CZI + DTXJ*SZI	FAIR	26
C DT/DY FOR THERMAL WINDS	FAIR	27
DTY = DTYG * CZI + DTYJ * SZI	FAIR	28
RETURN	FAIR	29
END	FAIR	30
SUBROUTINE FAIR5 (DHEL1 ,DHEL2 ,DLG1 ,DLG2 ,IH ,FDHEL ,FDLG)	FAR5	1
	FAR5	2
C*****	FAR5	3
C** THIS SUBROUTINE FAIRS BETWEEN THE REGION ABOVE 500 KM, WHICH	**FAR5	4
C** INVOKES THE SEASONAL-LATITUDINAL VARIATION OF THE HELIUM NUMBER	**FAR5	5
C** DENSITY (SUBROUTINE SLVH), AND THE REGION BELOW, WHICH DOES	**FAR5	6
C** NOT INVOKE ANY SEASONAL-LATITUDINAL VARIATION AT ALL.	**FAR5	7
C**	**FAR5	8
C** INPUTS: DHEL1 = HELIUM NUMBER DENSITY BEFORE INVOKING SLVH	**FAR5	9
C** DHEL2 = HELIUM NUMBER DENSITY AFTER INVOKING SLVH	**FAR5	10
C** DLG1 = TOTAL DENSITY BEFORE INVOKING SLVH	**FAR5	11
C** DLG2 = TOTAL DENSITY AFTER INVOKING SLVH	**FAR5	12
C** IH = HEIGHT (KM) -- INTEGER	**FAR5	13
C** IBFH = BASE FAIRING HEIGHT (KM) -- INTEGER	**FAR5	14

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C** OUTPUTS: FDHEL = FAIRED HELIUM NUMBER DENSITY          **FAR5 15
C**           FDLG  = FAIRED TOTAL DENSITY                  **FAR5 16
C**                                                     **FAR5 17
C*****FAR5 18
C                                                     FAR5 19
C           PARAMETER (IBFH = 440)                          FAR5 20
C           DIMENSION CZ ( 6 )                              FAR5 21
C           DATA CZ / 1.0, 0.9045085, 0.6545085, 0.3454915, 0.0954915, 0.0 /FAR5 22
C                                                     FAR5 23
C HEIGHT INDEX                                              FAR5 24
C           I = ( IH - IBFH ) /10 + 1                      FAR5 25
C NON-SLVH FAIRING COEFFICIENT                             FAR5 26
C           CZI = CZ ( I )                                  FAR5 27
C SLVH FAIRING COEFFICIENT                                 FAR5 28
C           SZI = 1.0 - CZI                                 FAR5 29
C FAIRED DENSITY                                            FAR5 30
C           FDLG = ( DLG1 * CZI ) + ( DLG2 * SZI )          FAR5 31
C FAIRED HELIUM NUMBER DENSITY                             FAR5 32
C           FDHEL = ( DHEL1 * CZI ) + ( DHEL2 * SZI )       FAR5 33
C                                                     FAR5 34
C           RETURN                                           FAR5 35
C           END                                              FAR5 36
C           SUBROUTINE GAUSS(Z2,NMIN,R,TX,T1,T3,T4,A2)       GAUS 1
C                                                     GAUS 2
C*****GAUS 3
C** SUBDIVIDE TOTAL INTEGRATION-ALTITUDE RANGE INTO INTERVALS **GAUS 4
C** SUITABLE FOR APPLYING GAUSSIAN QUADRATURE , SET THE NUMBER **GAUS 5
C** OF POINTS FOR INTEGRATIONRFOR EACH SUB-INTERVAL , AND THEN **GAUS 6
C** PERFORM GAUSSIAN QUADRATURE.                          **GAUS 7
C*****GAUS 8
C                                                     GAUS 9
C           REAL  ALTMIN (9) , C(8,6), X(8,6), MOLWT       GAUS 10
C           INTEGER NG (8) , NGAUSS , NMIN , J              GAUS 11
C                                                     GAUS 12
C                                                     GAUS 13
C           DATA  ALTMIN/90.,105.,125.,160.,200.,300.,500.,1500.,2500./ GAUS 14
C           DATA   NG   / 4 , 5 , 6 , 6 , 6 , 6 , 6 , 6 /   GAUS 15
C                                                     GAUS 16
C COEFFICIENTS FOR GAUSSIAN QUADRATURE ...                 GAUS 17
C                                                     GAUS 18
C           DATA  C / .5555556 , .8888889 , .5555556 , .0000000 , GAUS 19
C           . , .0000000 , .0000000 , .0000000 , .0000000 , GAUS 20
C           . , .3478548 , .6521452 , .6521452 , .3478548 , GAUS 21
C           . , .0000000 , .0000000 , .0000000 , .0000000 , GAUS 22
C           . , .2369269 , .4786287 , .5688889 , .4786287 , GAUS 23
C           . , .2369269 , .0000000 , .0000000 , .0000000 , GAUS 24
C           . , .1713245 , .3607616 , .4679139 , .4679139 , GAUS 25
C           . , .3607616 , .1713245 , .0000000 , .0000000 , GAUS 26
C           . , .1294850 , .2797054 , .3818301 , .4179592 , GAUS 27
C           . , .3818301 , .2797054 , .1294850 , .0000000 , GAUS 28
C           . , .1012285 , .2223810 , .3137067 , .3626838 , GAUS 29
C           . , .3626838 , .3137067 , .2223810 , .1012285 / GAUS 30
C                                                     GAUS 31
C ABSCISSAS FOR GAUSSIAN QUADRATURE ...                   GAUS 32

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DATA X /	-.7745967 , .0000000 , .7745967 , .0000000 ,	GAUS 33
	.0000000 , .0000000 , .0000000 , .0000000 ,	GAUS 34
	.0000000 , .0000000 , .0000000 , .0000000 ,	GAUS 35
	-.8611363 , -.3399810 , .3399810 , .8611363 ,	GAUS 36
	.0000000 , .0000000 , .0000000 , .0000000 ,	GAUS 37
	-.9061798 , -.5384693 , .0000000 , .5384693 ,	GAUS 38
	.9061798 , .0000000 , .0000000 , .0000000 ,	GAUS 39
	-.9324695 , -.6612094 , -.2386192 , .2386192 ,	GAUS 40
	.6612094 , .9324695 , .0000000 , .0000000 ,	GAUS 41
	-.9491079 , -.7415312 , -.4058452 , .0000000 ,	GAUS 42
	.4058452 , .7415312 , .9491079 , .0000000 ,	GAUS 43
	-.9602899 , -.7966665 , -.5255324 , -.1834346 ,	GAUS 44
	.1834346 , .5255324 , .7966665 , .9602899 /	GAUS 45
		GAUS 46
	GRAVITY(ALT)=9.80665/((1.+ALT/6.356766E3)**2)	GAUS 47
		GAUS 48
	R = 0.0	GAUS 49
DO 2	K = NMIN , 8	GAUS 50
	NGAUSS = NG (K)	GAUS 51
	A = ALTMIN (K)	GAUS 52
	D = AMIN1 (Z2 , ALTMIN (K+1))	GAUS 53
	RR = 0.0	GAUS 54
	DEL = 0.5 * (D - A)	GAUS 55
	J = NGAUSS - 2	GAUS 56
		GAUS 57
DO 1	I = 1 , NGAUSS	GAUS 58
	Z = DEL * (X(I,J) + 1.) + A	GAUS 59
	RR=RR+C(I,J)*MOLWT(Z)*GRAVITY(Z)/TEMP(Z,TX,T1,T3,T4,A2)	GAUS 60
		GAUS 61
1	CONTINUE	GAUS 62
		GAUS 63
	RR = DEL * RR	GAUS 64
	R = R + RR	GAUS 65
	IF (D .EQ. Z2) RETURN	GAUS 66
		GAUS 67
2	CONTINUE	GAUS 68
		GAUS 69
	RETURN	GAUS 70
	END	GAUS 71
	SUBROUTINE GEN4D	GAUS 72
C.....	GENERATES NG = 9 OR 16 4D PROFILES P,D,T AND SIGMAS SP,SD,ST AT	GEN4 1
C	GRID OF LATITUDES AND LONGITUDES GLAT,GLON. CURRENT LATITUDE,	GEN4 2
C	LONGITUDE=CLAT,CLON. PREVIOUS LATITUDE, LONGITUDE=PLAT,PLON.	GEN4 3
	COMMON/C4/GLAT(16),GLON(16),NG,P(16,26),D(16,26),T(16,26),	GEN4 4
	\$ SP(16,26),SD(16,26),ST(16,26),PLON,CLON,HS	GEN4 5
	COMMON/IOTEMP/IOTEM1,IOTEM2,IUS,DDD,XMJD,PLAT,CLAT,	GEN4 6
	\$ NSAME,RP1,RD1,RT1,SP1,SD1,ST1,RU1,RV1,SU1,SV1,	GEN4 7
	\$ MN,IDA,IYR,H1,PHI1R,THET1R,GZ,RI,Z,PHIR,THETR,F10,F10B,AP,	GEN4 8
	\$ IHR,MIN,NMORE,DX,HL,VL,DZ,B,EPS,IOPP,LOOK,DUMMY(20)	GEN4 9
	COMMON /PDTCOM/IU4,MONTH,IOPR,	GEN4 10
	. PSP(15,19,18),DSP(15,19,18),TSP(15,19,18),USP(15,19,18),	GEN4 11
	. VSP(15,19,18),	GEN4 12
	. PG(21,19),DG(21,19),TG(21,19),UG(21,19).	GEN4 13
		GEN4 14

PAQ(17.5),DAQ(17.5),IAQ(17.5),UAQ(17.5),VAQ(17.5),	GEN4	15
PDQ(17.5),DDQ(17.5),TDQ(17.5),UDQ(17.5),VDQ(17.5),	GEN4	16
FP(29,19),DP(29,19),TR(29,19),UR(29,19),VR(29,19),	GEN4	17
5PQ,DQ,IQ,UQ,VQ,POA,DQA,IOA,UA,VA,10PQ	GEN4	18
* ,PLP(25,10),DLP(25,10),TLP(25,10),ULP(25,10),VLP(25,10),UDL(25,	GEN4	19
* 10),VDL(25,10),UDS(25,10),VDS(25,10)	GEN4	20
COMMON/ADJCOM/DUM(130),KOUNT	GEN4	21
COMMON/IPRI/ IPRI,NLIMIT	GEN4	22
DIMENSION NSOOD(26)	GEN4	23
IF(NSAME EQ 1) RETURN	GEN4	24
LOOK=0	GEN4	25
F = 0.017453293	GEN4	26
NG = 16	GEN4	27
DX = PLON - CLON	GEN4	28
IF(DX.GT.180.)DX = DX - 360.	GEN4	29
IF(DX.LT.-180.)DX = DX + 360.	GEN4	30
C....LONGITUDE DISPLACEMENT FROM PREVIOUS TO CURRENT POSITION	GEN4	31
DY = CLAT - PLAT	GEN4	32
C....LATITUDE DISPLACEMENT FROM PREVIOUS TO CURRENT POSITION	GEN4	33
IF (DY) 20,10,20	GEN4	34
10 IF (DX) 15,12,15	GEN4	35
12 K = 0	GEN4	36
GO TO 10	GEN4	37
15 THETA = 180. + SIGN(90.,DX)	GEN4	38
GO TO 30	GEN4	39
20 THETA = ATAN(DX/DY)/F	GEN4	40
IF (DY.GT.0.) THETA = THETA + 180.	GEN4	41
IF (THETA.LT.0.) THETA = THETA + 360.	GEN4	42
C....THETA = AZIMUTH ANGLE OF TRAJECTORY, USED TO ORIENT LAT-LON GRID	GEN4	43
30 K = INT((THETA + 67.5)/45.)	GEN4	44
C INDEX USED IN COMPUTED GO TO FOR 110 THRU 180	GEN4	45
IF (K.GT.8) K=K-8	GEN4	46
C NORTH POLAR GRID	GEN4	47
40 IF (CLAT.GT.75.0)GO TO 200	GEN4	48
C SOUTH POLAR GRID	GEN4	49
IF (CLAT.LT.-75.0)GO TO 200	GEN4	50
C....INITIAL ESTIMATE OF REFERENCE LATITUDE (LOWER LEFT GRID POINT)	GEN4	51
LATO = 5*INT(CLAT/5.)	GEN4	52
IF (CLAT.LT.0.) LATO = LATO - 5	GEN4	53
C....INITIAL ESTIMATE OF REFERENCE LONGITUDE (LOWER LEFT GRID POINT)	GEN4	54
LONO=5*INT(CLON/5.)	GEN4	55
C....ADJUSTS LATO,LONO ACCORDING TO DIRECTION OF TRAJECTORY AZIMUTH	GEN4	56
IF (K.GT.0) GO TO 100	GEN4	57
LATO = LATO - 5	GEN4	58
LONO= LONO + 10	GEN4	59
GO TO 190	GEN4	60
100 GO TO (110,120,130,140,150,160,170,180),K	GEN4	61
110 LATO = LATO 10	GEN4	62
LONO = LONO + 10	GEN4	63
GO TO 190	GEN4	64
120 LATO = LATO-10	GEN4	65
LONO = LONO+15	GEN4	66
GO TO 190	GEN4	67
130 LATO = LATO-5	GEN4	68

LONO = LONO+15	GEN4 69
GO TO 190	GEN4 70
140 LONO = LONO+15	GEN4 71
GO TO 190	GEN4 72
150 LONO = LONO+10	GEN4 73
GO TO 190	GEN4 74
160 LONO = LONO+5	GEN4 75
GO TO 190	GEN4 76
170 LATO = LATO-5	GEN4 77
LONO = LONO+5	GEN4 78
GO TO 190	GEN4 79
180 LATO = LATO-10	GEN4 80
LONO = LONO+5	GEN4 81
190 -IF(LONO.GE.360)LONO = LONO - 360	GEN4 82
IF(LATO.GT.75) LATO=75	GEN4 83
DLI=1.25	GEN4 84
IF(ABS(CLAT).GE.18) GO TO 192	GEN4 85
DLI=3.0	GEN4 86
LATO=-18	GEN4 87
192 DO 195 I=1,4	GEN4 88
I12 = I+12	GEN4 89
DO 195 J=I,I12,4	GEN4 90
GLAT(J)=LATO+DLI*(J-I)	GEN4 91
C.....LATITUDE, LONGITUDE GRID AT 5 DEGREE INTERVALS	GEN4 92
195 GLON(J) = LONO - 5. * (I - 1)	GEN4 93
GO TO 400	GEN4 94
C POLAR GRID	GEN4 95
200 NG = 9	GEN4 96
DO 210 J=1,8	GEN4 97
C.....POLAR GRID LATITUDES 1-8 = +75 (N) OR -75 (S)	GEN4 98
GLAT(J) = SIGN(75.,CLAT)	GEN4 99
C.....POLAR GRID LONGITUDES 1-8 AT 45 DEG INTERVALS	GEN4 100
210 GLON(J) = 45.*(J-1)	GEN4 101
C.....POLAR GRID LATITUDE 9 = POLE +90 OR -90	GEN4 102
GLAT(9) = SIGN(90.,CLAT)	GEN4 103
C.....POLAR GRID LONGITUDE 9 = 0	GEN4 104
GLON(9) = 0.	GEN4 105
C.....GENERATES 16 PROFILES (OR 9 PROFILES FOR POLAR GRID)	GEN4 106
400 CALL GRID4D	GEN4 107
DO 390 I = 1,NG	GEN4 108
DO 330 J = 1,26	GEN4 109
NGOOD(J) = 1	GEN4 110
IF(P(I,J).LE.O.O.OR.D(I,J).LE.O.O.OR.T(I,J).LE.O.O)NGOOD(J)=0	GEN4 111
IF(NGOOD(J).EQ.O)GOTO 330	GEN4 112
RATIO = P(I,J)/(D(I,J)*T(I,J))	GEN4 113
IF(RATIO.GT.286.O.AND.RATIO.LT.288.O)GOTO 330	GEN4 114
NGOOD(J) = 0	GEN4 115
IF(IPRT.EQ.O)WRITE(6,325)I,J,RATIO	GEN4 116
325 FORMAT(' GAS LAW VIOLATION. I,J,RATIO = ',2I4,G12.4)	GEN4 117
330 CONTINUE	GEN4 118
DO 340 J = 3,26	GEN4 119
IF(NGOOD(J).EQ.O.OR.NGOOD(J-1).EQ.O)GOTO 340	GEN4 120
DENOM = 1./T(I,J)	GEN4 121
IF(ABS(T(I,J)-T(I,J-1)).GT.O.O1)DENOM=ALOG(T(I,J-1)/T(I,J))/	GEN4 122

& (T(I,J-1)-T(I,J))	GEN4 123
RATIO = ALOG(P(I,J-1)/P(I,J))/DENOM	GEN4 124
IF(RATIO.GT.30.7.AND.RATIO.LT.37.6)GOTO 340	GEN4 125
NGOOD(J) = 0	GEN4 126
IF(IPRT.EQ.0)WRITE(6,335)I,J,RATIO	GEN4 127
335 FORMAT(' HYDROSTATIC VIOLATION. I,J,RATIO = ',2I4,G12.4)	GEN4 128
IF(J.EQ.26)GO TO 345	GEN4 129
K1 = J + 1	GEN4 130
DO 336 K = K1,26	GEN4 131
336 NGOOD(K) = 0	GEN4 132
GO TO 345	GEN4 133
340 CONTINUE	GEN4 134
345 NBAD = 0	GEN4 135
DO 360 J = 1,26	GEN4 136
IF(NGOOD(J).GT.0)GOTO 360	GEN4 137
NBAD = NBAD + 1	GEN4 138
P(I,J) = 0.	GEN4 139
D(I,J) = 0.	GEN4 140
T(I,J) = 0.	GEN4 141
360 CONTINUE	GEN4 142
IF(NBAD.LE.NLIMIT) GOTO 390	GEN4 143
WRITE(6,380)	GEN4 144
380 FORMAT(' UNABLE TO GENERATE 4-D GRID. TOO MANY TEST VIOLATIONS')	GEN4 145
STOP	GEN4 146
390 CONTINUE	GEN4 147
DO 600 I=1,NG	GEN4 148
IHV = 0	GEN4 149
SPR = 0.0004	GEN4 150
SDR = 0.0004	GEN4 151
STR = 0.0004	GEN4 152
DO 420 J = 8,26	GEN4 153
CHECK = 1.	GEN4 154
IF(P(I,J).LE.0.0.OR.SP(I,J).LE.0.0)CHECK = 0.	GEN4 155
IF(D(I,J).LE.0.0.OR.SD(I,J).LE.0.0)CHECK = 0.	GEN4 156
IF(T(I,J).LE.0.0.OR.ST(I,J).LE.0.0)CHECK = 0.	GEN4 157
C..... FINDS INDEX IHV OF LAST HEIGHT ABOVE 6 KM WITH NON-ZERO DATA	GEN4 158
IF(CHECK.GT.0.)GO TO 420	GEN4 159
IHV = J-1	GEN4 160
GO TO 440	GEN4 161
420 CONTINUE	GEN4 162
C HEIGHT = HEIGHT INDEX - 1	GEN4 163
440 Z1 = IHV - 1.	GEN4 164
IF(IHV.EQ.0)GO TO 491'	GEN4 165
C SPR,SDR,STR=SIGMAS AT HEIGHT Z1	GEN4 166
SPR = SP(I,IHV)	GEN4 167
SDR=SD(I,IHV)	GEN4 168
STR=ST(I,IHV)	GEN4 169
IF(SPR.LE.0.0)SPR = 0.0004	GEN4 170
IF(SDR.LE.0.0)SDR = 0.0004	GEN4 171
IF(STR.LE.0.0)STR = 0.0004	GEN4 172
IF(IHV.GT.26-NLIMIT)GOTO 441	GEN4 173
WRITE(6,442)IHV	GEN4 174
442 FORMAT(' UNABLE TO GENERATE 4-D GRID. IHV = ',I3)	GEN4 175
STOP	GEN4 176

441	CONTINUE	GEN4 177
C.....	IF HEIGHT Z1 GEQ 20 KM, USE ZONAL MEAN AT 30 KM FOR INTERPOLATION,	GEN4 178
C	OTHERWISE USE ZONAL MEAN AT 25 KM	GEN4 179
	IF (IHV.GE.21) GO TO 480	GEN4 180
C.....	EVALUATES ZONAL MEANS AT 25 KM FOR INTERPOLATION AND	GEN4 181
C	FILL IN OF ZERO DATA	GEN4 182
	CALL GTERP(25,GLAT(I),P2,D2,T2,PG,DG,TG,DPY,DTY,U2,UG)	GEN4 183
	IHP = IHV + 1	GEN4 184
	DO 450 K=IHP,26	GEN4 185
C.....	AVOIDS INTERPOLATION OF P,D,T IF ONLY SIGMAS ARE ZERO	GEN4 186
	IF(P(I,K).GT.O.O.AND.D(I,K).GT.O.O.AND.T(I,K).GT.O.O)GO TO 445	GEN4 187
	H=K-1	GEN4 188
C.....	INTERPOLATES BETWEEN 4D AT HEIGHT Z1 AND ZONAL MEAN AT 25 TO FILL	GEN4 189
C	IN MISSING DATA	GEN4 190
	CALL INTER2(P(I,IHV),D(I,IHV),T(I,IHV),Z1,P2,D2,T2,25.,PH,DH,TH,H)	GEN4 191
	IF(IPRT.EQ.O)WRITE(6,583)I,K,PH,DH,TH	GEN4 192
	P(I,K)=PH	GEN4 193
	D(I,K)=DH	GEN4 194
	T(I,K)=TH	GEN4 195
445	SP(I,K) = SPR	GEN4 196
	SD(I,K)=SDR	GEN4 197
C.....	SETS MISSING SIGMAS EQUAL TO SIGMAS AT HEIGHT Z1	GEN4 198
450	ST(I,K)=STR	GEN4 199
	GO TO 491	GEN4 200
C.....	EVALUATES ZONAL MEANS AT 30 KM FOR INTERPRETATION AND FILL IN OF	GEN4 201
C	ZERO DATA	GEN4 202
480	CALL GTERP(30,GLAT(I),P2,D2,T2,PG,DG,TG,DPY,DTY,U2,UG)	GEN4 203
C	COMPUTE PERTURBATIONS TO ZONAL MEAN MODEL	GEN4 204
	CALL PDTUV(PSP,DSP,TSP,USP,VSP,GLAT(I),GLON(I),30,DP,DD,DT,	GEN4 205
	\$ DPX,DPY,DTX,DTY,DU,DV)	GEN4 206
C.....	ADD STATIONARY PERTURBATIONS TO ZONAL MEAN MODEL	GEN4 207
	P2 = P2*(1. + DP)	GEN4 208
	D2 = D2*(1. + DD)	GEN4 209
	T2 = T2*(1. + DT)	GEN4 210
	IHP = IHV + 1	GEN4 211
	DO 490 K=IHP,26	GEN4 212
C.....	AVOIDS INTERPOLATING P,D,T IF ONLY SIGMAS ARE ZERO	GEN4 213
	IF(P(I,K).GT.O.O.AND.D(I,K).GT.O.O.AND.T(I,K).GT.O.O)GO TO 485	GEN4 214
	H=K-1	GEN4 215
C.....	INTERPOLATES BETWEEN 4D AT HEIGHT Z1 AND GROVES AT 30 KM TO	GEN4 216
C	FILL IN MISSING DATA	GEN4 217
	CALL INTER2(P(I,IHV),D(I,IHV),T(I,IHV),Z1,P2,D2,T2,30.,PH,DH,TH,H)	GEN4 218
	IF(IPRT.EQ.O)WRITE(6,583)I,K,PH,DH,TH	GEN4 219
	P(I,K)=PH	GEN4 220
	D(I,K)=DH	GEN4 221
	T(I,K)=TH	GEN4 222
485	SP(I,K) = SPR	GEN4 223
	SD(I,K)=SDR	GEN4 224
C	SET MISSING SIGMAS AT HEIGHT 1	GEN4 225
490	ST(I,K) = STR	GEN4 226
491	CONTINUE	GEN4 227
	IHP = IHV - 1	GEN4 228
	SPO = SP(I,1)	GEN4 229
	SDO = SD(I,1)	GEN4 230

STO = ST(I,1)	GEN4 231
IF(SPO.LE.O.O)SPO = 0.0001	GEN4 232
IF(SDO.LE.O.O)SDO = 0.0001	GEN4 233
IF(STO.LE.O.O)STO = 0.0001	GEN4 234
DO 492 K = 1,9	GEN4 235
IF(SP(I,K).LE.O.) SP(I,K) = SPO	GEN4 236
IF(SD(I,K).LE.O.) SD(I,K) = SDO	GEN4 237
492 IF(ST(I,K).LE.O.) ST(I,K) = STO	GEN4 238
DO 495 K=10,IHP	GEN4 239
C.....SETS ALL ZERO SIGMAS TO SIGMA AT HEIGHT Z1	GEN4 240
IF (SP(I,K).LE.O.O.AND.P(I,K).GT.O.) SP(I,K) = SPR	GEN4 241
IF (SD(I,K).LE.O.O.AND.D(I,K).GT.O.) SD(I,K) = SDR	GEN4 242
495 IF (ST(I,K).LE.O.O.AND.T(I,K).GT.O.) ST(I,K) = STR	GEN4 243
500 PA = P(I,1)	GEN4 244
TA = T(I,1)	GEN4 245
R =287.05	GEN4 246
G = GZ*(1.+(Z/(RI-Z)))*2	GEN4 247
K = 2	GEN4 248
510 PB = P(I,K)	GEN4 249
TB = T(I,K)	GEN4 250
IF ((PB*TB).GT.O.) GO TO 520	GEN4 251
K = K + 1	GEN4 252
GO TO 510	GEN4 253
520 IF(ABS(TA-TB).LE.O.O1)GOTO 570	GEN4 254
560 IF(TA*TB.LE.O.O)GO TO 570	GEN4 255
TZ = (TA-TB) / ALOG(TA/TB)	GEN4 256
GO TO 575	GEN4 257
570 TZ = TA	GEN4 258
575 HS = K - 1.	GEN4 259
IF(PB*PA.LE.O.O)GO TO 576	GEN4 260
HS = K - 1. + 0.001*R*TZ*ALOG(PB/PA)/G	GEN4 261
576 KM = K - 2	GEN4 262
IF(ABS(K-1-HS).GT.O.1) GO TO 578	GEN4 263
GAM=TB-T(I,K+1)	GEN4 264
IF(ABS(GAM).LE.O.O1)GOTO 590	GEN4 265
GO TO 582	GEN4 266
578 IF(ABS(TA-TB).LE.O.O1)GOTO 590	GEN4 267
580 GAM=(TA-TB)/(K-1-HS)	GEN4 268
582 KM1=KM+1	GEN4 269
IF(ABS(GAM).GT.G) GAM=SIGN(G,GAM)	GEN4 270
DO 585 JD=1,KM1,1	GEN4 271
J=JD-1	GEN4 272
TJ=TA-GAM*(J-HS)	GEN4 273
PJ=PA*(TJ/TA)*+(G/(R*GAM*O.OO1))	GEN4 274
DJ=PJ/(R*TJ)	GEN4 275
IF(IPRT.EQ.O)WRITE(6,583)I,J+1,PJ,DJ,TJ	GEN4 276
583 FORMAT(' NEW VALUES COMPUTED AT I,J P,D,T ',214,F9.0,F9.5,F9.2)	GEN4 277
P(I,J+1)=PJ	GEN4 278
D(I,J+1)=DJ	GEN4 279
585 T(I,J+1)=TJ	GEN4 280
GO TO 599	GEN4 281
590 KM1=KM+1	GEN4 282
DO 595 JD=1,KM1,1	GEN4 283
J=JD-1	GEN4 284

TJ=TA	GEN4 285
PJ=PA*EXP(-G*(J-HS)/(R*0.001*TJ))	GEN4 286
DJ=PJ/(R*TJ)	GEN4 287
IF(IPRT.EQ.0)WRITE(6,583)I,J+1,PJ,DJ,TJ	GEN4 288
P(I,J+1)=PJ	GEN4 289
D(I,J+1)=DJ	GEN4 290
595 T(I,J+1)=TJ	GEN4 291
IF(NSAME.EQ.2) NSAME=1	GEN4 292
599 HS=0.	GEN4 293
KOUNT = I	GEN4 294
CALL ADJUST	GEN4 295
600 CONTINUE	GEN4 296
RETURN	GEN4 297
END	GEN4 298
SUBROUTINE GETNMC	GETN 1
C	GETN 2
C READS DATA FILE FOR NMC GRID NUMBERS,	GETN 3
C AND WRITES SCRATCH FILE FOR USE BY SELEC4.	GETN 4
C	GETN 5
DIMENSION IP(15)	GETN 6
CHARACTER N*2, IDUMMY*2	GETN 7
C	GETN 8
COMMON/IOTEMP/ IOTEM1,IOTEM2,IUS,IDUM(60)	GETN 9
C	GETN 10
NREC=0	GETN 11
C	GETN 12
1 READ(IUS,300,END=90) N,IP	GETN 13
300 FORMAT(A2,15I7)	GETN 14
IF(N.NE.'N') GO TO 6	GETN 15
3 DO 4 I=1,15,3	GETN 16
M=IP(I)	GETN 17
IF(M.LT.1) GO TO 5	GETN 18
IJ=IP(I+1)*1000+IP(I+2)	GETN 19
WRITE(IOTEM2) IJ	GETN 20
NREC=NREC+1	GETN 21
4 CONTINUE	GETN 22
GO TO 1	GETN 23
5 IF(NREC.NE.1977) GO TO 6	GETN 24
7 RETURN	GETN 25
6 WRITE(6,200) NREC,IOTEM2	GETN 26
200 FORMAT(1H1/1X,16,' RECORDS WRITTEN BY GETNMC IN SCRATCH FILE',13)	GETN 27
STOP	GETN 28
90 WRITE(6,400) IUS	GETN 29
400 FORMAT('1 PREMATURE END-OF-FILE FOUND ON UNIT ',12/	GETN 30
1'O CALLED FROM SUBROUTINE GETNMC.')	GETN 31
STOP ' GETNMC ERROR.'	GETN 32
END	GETN 33
SUBROUTINE GRID4D	GRID 1
REAL LAT,LON	GRID 2
COMMON/C4/LAT(16),LON(16),NP,P(16,26),R(16,26),T(16,26),SP(16,26),	GRID 3
& SR(16,26),ST(16,26),DU1,DU2,DUMMY	GRID 4
COMMON /PDTCOM/IT,MONTH,IDUM,DUMMY1(30851),DUM2(2261)	GRID 5
COMMON /IPRTP/IPRT,NLIMIT	GRID 6
C	GRID 7

C	SUBROUTINE TO SELECT PRESSURE, TEMPERATURE, AND DENSITY PROFILES	(GRID	8
C	TOGETHER WITH THE NORMALIZED VARIABLES IN EACH	GRID	9
C	AT LAT/LONS SELECTED BY CALLING PROGRAM.	GRID	10
C		GRID	11
C	USES DISK FILES MADE FROM NASA HUNTSVILLE MSFC 4-D DATA TAPES	GRID	12
C		GRID	13
C		GRID	14
	COMMON/IOTEMP/IOTEM1,IOTEM2,DUMMY2(61)	GRID	15
	COMMON /POINT/ IPT(16,5),LL(16),DXY(16,2)	GRID	16
	COMMON /ORDER/ IPTN(16,5),IREAD(65,3)	GRID	17
	COMMON /INT/ D(208,5),IG(5),DYX(2),DLA(4),DLO(4)	GRID	18
C		GRID	19
C	NAME OF 4-D FILE TO OPEN	GRID	20
C	CHARACTER*7 NAME4D,FILES(12)	GRID	21
	REAL DTEMP(213)	GRID	22
C		GRID	23
C	INITIALIZE	GRID	24
C		GRID	25
	DATA FILES/'DAT4D01','DAT4D02','DAT4D03','DAT4D04','DAT4D05',	GRID	26
	&'DAT4D06','DAT4D07','DAT4D08','DAT4D09','DAT4D10','DAT4D11',	GRID	27
	&'DAT4D12'/	GRID	28
	ZERO=0.0	GRID	29
	ONE=1.0	GRID	30
	TEN=10.0	GRID	31
	HUNDR=100.0	GRID	32
	THOU=1000.0	GRID	33
C		GRID	34
C		GRID	35
C	OPEN 4-D FILE FROM MONTH VALUE	GRID	36
C		GRID	37
	NAME4D=FILES(MONTH)	GRID	38
	OPEN(IT,FILE=NAME4D,STATUS='OLD',ACCESS='DIRECT',	GRID	39
	IFORM='FORMATTED',RECL=1269)	GRID	40
C		GRID	41
C	APPROPRIATE 4-D INPUT FILE NOW POSITIONED - STORE NEEDED PROFILES	GRID	42
C		GRID	43
C		GRID	44
C	20 CALL SELEC4	GRID	45
C		GRID	46
	DO 29 IRN=1,64	GRID	47
	IF(IREAD(IRN,3).EQ.0)GOTO 29	GRID	48
	II = IREAD(IRN,1)	GRID	49
	JJ = IREAD(IRN,2)	GRID	50
	IF(IPRT.EQ.0)WRITE(6,169)IRN,(IREAD(IRN,J),J=1,3),	GRID	51
	& IPT(II,JJ),IPTN(II,JJ)	GRID	52
29	CONTINUE	GRID	53
	DO 38 II = 1,NP	GRID	54
	DO 19 I = 1,208	GRID	55
19	D(I,5) = 0.0	GRID	56
	DO 31 J = 1,4	GRID	57
	IF (IPTN(II,J) .EQ. 0)GOTO 31	GRID	58
	IRN = IPTN(II,J) - 9000	GRID	59
	IF(IPRT.EQ.0)WRITE(6,169)II,J,IRN	GRID	60
169	FORMAT(' GRID4D',6I6)	GRID	61
C		GRID	62
C	READ IN RECORDS OF POINTS NEAR DESIRED LAT/LON	GRID	63

C	21 READ(11,22,REC=IRN) DTEMP	GRID 64
	22 FORMAT(208F6.2,2F4.2,3F4.0)	GRID 65
	IF((DTEMP(213).NE.MONTH).OR.(DTEMP(212).NE.IPT(11,J))) GOTO 39	GRID 66
	DO 30 I=1,208	GRID 67
	30 D(I,J)=DTEMP(I)	GRID 68
	DLA(J)=DTEMP(209)*TEN	GRID 69
	DLO(J)=DTEMP(210)*TEN	GRID 70
	31 CONTINUE	GRID 71
C	IF(IPRT.EQ.O)WRITE(6,99)11,LAT(11),LON(11),LL(11),(IPT(11,J),	GRID 72
	& DLA(J),DLO(J),D(1,J)*HUNDR,D(157,J)/THOU,D(53,J),J=1,4)	GRID 73
	99 FORMAT(' 4-D DATA ',I3,2F7.2,I10/4(I5,2F7.2,F8.0,F8.5,F8.2/))	GRID 74
C	IF NECESSARY, INTERPOLATE	GRID 75
C	LALO=LL(11)	GRID 76
	DO 33 I=1,5	GRID 77
	IG(I)=IPT(11,I)	GRID 78
	33 CONTINUE	GRID 79
	IF(IG(2).NE.O) GO TO 35	GRID 80
	DO 34 I=1,208	GRID 81
	D(I,5)=D(I,1)	GRID 82
	34 CONTINUE	GRID 83
	GO TO 37	GRID 84
	35 IF(IG(5).NE.2) GO TO 36	GRID 85
	DYX(1)=DXY(11,1)	GRID 86
	DYX(2)=DXY(11,2)	GRID 87
C		GRID 88
	36 CALL INTRP4 (LALO)	GRID 89
C		GRID 90
	37 DO 38 I=1,26	GRID 91
	P(11,I)=D(I,5)*HUNDR	GRID 92
	R(11,I)=D(I+156,5)/THOU	GRID 93
	T(11,I) =D(I+52,5)	GRID 94
	DIVIDE=ONE	GRID 95
	IF(P(11,I).GT.ZERO) DIVIDE=(P(11,I)/HUNDR)**2	GRID 96
	SP(11,I)=D(I+26,5)/DIVIDE	GRID 97
	SP(11,I)=ABS(SP(11,I))	GRID 98
	DIVIDE=ONE	GRID 99
	IF(R(11,I).GT.ZERO) DIVIDE=(THOU*R(11,I))**2	GRID 100
	SR(11,I)=D(I+182,5)/DIVIDE	GRID 101
	SR(11,I)=ABS(SR(11,I))	GRID 102
	DIVIDE=ONE	GRID 103
	IF(T(11,I).GT.ZERO) DIVIDE=T(11,I)**2	GRID 104
	ST(11,I)=D(I+78,5)/DIVIDE	GRID 105
	ST(11,I)=ABS(ST(11,I))	GRID 106
	38 CONTINUE	GRID 107
	IF(IPRT.NE.O)RETURN	GRID 108
	WRITE(6,2000)(LAT(I),I=1,NP)	GRID 109
	WRITE(6,2001)(LON(I),I=1,NP)	GRID 110
	WRITE(6,2007)	GRID 111
	DO 501 I = 1,26	GRID 112
	IH = I - 1	GRID 113
	WRITE(6,2004)IH,(SQRT(SP(J,I)),J=1,NP)	GRID 114
		GRID 115
		GRID 116
		GRID 117

501	WRITE(6,2002)IH,(P(J,I),J=1,NP)	GRID 118
	WRITE(6,2003)	GRID 119
	DO 502 I = 1,26	GRID 120
	IH = I - 1	GRID 121
	WRITE(6,2004)IH,(SQRT(SR(J,I)),J=1,NP)	GRID 122
502	WRITE(6,2004)IH,(R(J,I),J=1,NP)	GRID 123
	WRITE(6,2005)	GRID 124
	DO 503 I = 1,26	GRID 125
	IH = I - 1	GRID 126
	WRITE(6,2004)IH,(SQRT(ST(J,I)),J=1,NP)	GRID 127
503	WRITE(6,2006)IH,(T(J,I),J=1,NP)	GRID 128
2000	FORMAT(' 4-D DATA READ IN FROM FILE'/' LATITUDE'/3X,16F8.3)	GRID 129
2001	FORMAT(' LONGITUDE'/3X,16F8.3)	GRID 130
2007	FORMAT(' PRESSURE')	GRID 131
2002	FORMAT(1X,12,16F8.0)	GRID 132
2003	FORMAT(' DENSITY')	GRID 133
2004	FORMAT(1X,12,16F8.5)	GRID 134
2005	FORMAT(' TEMPERATURE')	GRID 135
2006	FORMAT(1X,12,16F8.2)	GRID 136
	RETURN	GRID 137
39	WRITE(6,40) IT,IRN,DTEMP(213),MONTH,DTEMP(212),II,J,IPT(II,J)	GRID 138
40	FORMAT(' ***** UNIT NO. ',I3,' IN ERROR.')	GRID 139
	1 ' IRN = ',I5,' DTEMP(213) = ',I3,' MONTH = ',I3,' DTEMP(212) = ',I5,	GRID 140
	& ' IPT(' ,I2,' ,',I1,') = ',I5)	GRID 141
	STOP	GRID 142
	END	GRID 143
	SUBROUTINE GROUP	GROU 1
	DIMENSION KOU(2)	GROU 2
	COMMON/CHIC/LA(4,4),NB(2),IWSYM,USH,VSH,DUSH,DVSH	GROU 3
	COMMON /CHK/P(4,4,3),DEN(4,4,3),NO(2)	GROU 4
	COMMON/WINCOM/DGH,FCORY,DX5,DY5,DUMMY(14)	GROU 5
	FCORX = FCORY*DX5/DY5	GROU 6
	KK=1	GROU 7
	DO 100 I=1,4	GROU 8
	DO 100 J=1,4	GROU 9
	LA(I,J)=4*(I-1)+J	GROU 10
100	CONTINUE	GROU 11
200	CONTINUE	GROU 12
	DO 250 M=1,4	GROU 13
	DO 250 N=1,4	GROU 14
	IF (KK.EQ.1) GO TO 210	GROU 15
	I=5-M	GROU 16
	J=5-N	GROU 17
	NN=-1	GROU 18
	N4=-1	GROU 19
	GO TO 220	GROU 20
210	CONTINUE	GROU 21
	I=M	GROU 22
	J=N	GROU 23
	NN=1	GROU 24
	N4=1	GROU 25
220	CONTINUE	GROU 26
	IF (N.EQ.4) GO TO 225	GROU 27
	DINX=FCORX* (DEN(I,J+NN,2)+DEN(I,J,2))/2	GROU 28

IF (ABS(DINX).LE.O.) GO TO 225	GROU 29
VY=(P(I,J+NN,2)-P(I,J,2))/DINX	GROU 30
IF (ABS(VY).GT.100) GO TO 225	GROU 31
LA(I,J)=MINO(LA(I,J),LA(I,J+NN))	GROU 32
LA(I,J+NN)=LA(I,J)	GROU 33
225 CONTINUE	GROU 34
IF (M.EQ.4) GO TO 250	GROU 35
DINY=FCORY* (DEN(I+N4,J,2)+DEN(I,J,2))/2	GROU 36
IF (ABS(DINY).LE.O.) GO TO 250	GROU 37
VX=(P(I+N4,J,2)-P(I,J,2))/DINY	GROU 38
IF (ABS(VX).GT.100) GO TO 250	GROU 39
LA(I,J)=MINO(LA(I,J),LA(I+N4,J))	GROU 40
LA(I+N4,J)=LA(I,J)	GROU 41
250 CONTINUE	GROU 42
KK=KK+1	GROU 43
IF (KK.EQ.2) GO TO 200	GROU 44
NO(1)=0	GROU 45
NO(2)=0	GROU 46
II=1	GROU 47
DO 400 LL=1,11	GROU 48
KOU(II)=1	GROU 49
DO 300 I=1,4	GROU 50
DO 300 J=1,4	GROU 51
IF (LA(I,J).EQ.LL) KOU(II)=KOU(II)+1	GROU 52
300 CONTINUE	GROU 53
IF (KOU(II).GE.7) NO(II)=LL	GROU 54
IF (KOU(II).GE.7) II=2	GROU 55
400 CONTINUE	GROU 56
RETURN	GROU 57
END	GROU 58
SUBROUTINE GTERP(IH,PHI,P,D,T,PG,DG,TG,DPY,DTY,U,UG)	GTER 1
C.... INTERPOLATES ZONAL MEAN DATA TO HEIGHT IH AND LATITUDE PHI	GTER 2
DIMENSION PG(21,19),TG(21,19),DG(21,19),UG(21,19)	GTER 3
C HEIGHT INDEX	GTER 4
I = (IH - 15)/5	GTER 5
IF (I.GT.21) I=21	GTER 6
C LOWER LATITUDE INDEX	GTER 7
J = INT((PHI + 100.)/10.)	GTER 8
IF (J.LT.1) J = 1	GTER 9
IF (J.GT.18) J = 18	GTER 10
C UPPER LATITUDE INDEX	GTER 11
JP = J + 1	GTER 12
C....CHECK FOR DENSITY OR TEMPERATURE LEQ O	GTER 13
CHK = DG(I,J) * TG(I,J) * DG(I,JP) * TG(I,JP)	GTER 14
IF (CHK) 10,10,20	GTER 15
10 P = PG(I,J)	GTER 16
D = DG(I,J)	GTER 17
T = TG(I,J)	GTER 18
GO TO 30	GTER 19
C.... LATITUDE DEVIATION FROM ZONAL MEAN POSITION	GTER 20
20 PHIF = (PHI + 100. - 10.*J)/10.	GTER 21
TL= TG(I,J) + (TG(I,JP) - TG(I,J))*PHIF	GTER 22
C LATITUDE INTERPOLATION	GTER 23
DL= DG(I,J) + (DG(I,JP) - DG(I,J)) *PHIF	GTER 24

	U=UG(I,J)+(UG(I,JP)-UG(I,J))*PHIF	GTER	25
	R1 = PG(I,J)/(DG(I,J)*TG(I,J))	GTER	26
	R2 = PG(I,JP)/(DG(I,JP)*TG(I,JP))	GTER	27
C	INTERPOLATED GAS CONSTANT	GTER	28
	R = R1 + (R2 - R1)*PHIF	GTER	29
C	PRESSURE COMPUTED FROM INTERPOLATED GAS CONSTANT	GTER	30
	P = DL*R*TL	GTER	31
	D = DL	GTER	32
	T = TL	GTER	33
C	DP/DY FOR GEOSTOPHIC WINDS	GTER	34
30	DPY = (PG(I,JP) - PG(I,J)) * 0.5	GTER	35
C	DT/DY FOR THERMAL WINDS	GTER	36
	DTY = (TG(I,JP) - TG(I,J)) * 0.5	GTER	37
	IF (ABS(PHI)-90.) 50,40,40	GTER	38
40	DPY = 0.	GTER	39
	DTY = 0.	GTER	40
50	CONTINUE	GTER	41
	RETURN	GTER	42
	END	GTER	43
	SUBROUTINE INTERW(U1,V1,Z1,U2,V2,Z2,U,V,Z)	INTW	1
	IF (Z1 - Z2) 20,10,20	INTW	2
10	U = U1	INTW	3
C	SETS U,V = U1,V1 IF Z1 = Z2	INTW	4
	V = V1	INTW	5
	RETURN	INTW	6
20	A = (Z-Z1)/(Z2-Z1)	INTW	7
	U = U1 + (U2-U1) * A	INTW	8
	V = V1 + (V2-V1) * A	INTW	9
C.....	LINEAR INTERPOLATION BETWEEN U1,V1 AT HEIGHT Z1 AND U2,V2 AT	INTW	10
C	HEIGHT Z2. OUTPUT IS U,V AT HEIGHT Z	INTW	11
	RETURN	INTW	12
	END	INTW	13
	SUBROUTINE INTERZ(P1,D1,T1,Z1,P2,D2,T2,Z2,P,D,T,Z)	INTZ	1
5	IF (Z1 - Z2) 20,10,20	INTZ	2
10	P = P1	INTZ	3
	D = D1	INTZ	4
C	SETS P, D, T = P1,D1,T1, IF Z1 = Z2	INTZ	5
	T = T1	INTZ	6
	RETURN	INTZ	7
20	A = (Z - Z1)/ (Z2 - Z1)	INTZ	8
	T = T1 + (T2 - T1)*A	INTZ	9
	D = D1 + (D2 - D1)*A	INTZ	10
	P = P1 + (P2 - P1) * A	INTZ	11
C.....	LINEAR INTERPOLATION BETWEEN P1,D1,T1 AT HEIGHT Z1 AND P2,D2,T2	INTZ	12
C	AT HEIGHT Z2 TO OUTPUT VALUES OF P,D,T AT HEIGHT Z	INTZ	13
	RETURN	INTZ	14
	END	INTZ	15
	SUBROUTINE INTER2(P1,D1,T1,Z1,P2,D2,T2,Z2,P,D,T,Z)	INT2	1
C.....	INTERPOLATES BETWEEN P1,D1,T1 AT HEIGHT Z1 AND P2,D2,T2 AT	INT2	2
C	HEIGHT Z2 TO OUTPUT VALUES OF P,D,T AT HEIGHT Z	INT2	3
C.....	CHECKS FOR T1,D1,T2,D2 PRODUCT = 0, FOR GAS CONSTANT INTERPOLATION	INT2	4
	CHK=T1*D1*T2*D2	INT2	5
	IF (CHK) 10,10,5	INT2	6
5	IF (Z1 - Z2) 20,10,20	INT2	7

10	P = P1	INT2	8
	D = D1	INT2	9
C	SETS P,D,T = P1,D1,T1 IF Z1=Z2	INT2	10
	T = T1	INT2	11
	RETURN	INT2	12
20	IF(P1*D1*T1*P2*D2*T2.LE.O.)GO TO 30	INT2	13
	IF(D2*D1.LE.O.O)GO TO 30	INT2	14
	A=ALOG(D2/D1)/(Z2-Z1)	INT2	15
C	LINEAR INTERPOLATION ON LOG D	INT2	16
	DZ= D1*EXP(A*(Z - Z1))	INT2	17
	A=(Z-Z1)/(Z2-Z1)	INT2	18
C	LINEAR INTERPOLATION ON T	INT2	19
	TZ= T1 + A*(T2-T1)	INT2	20
	R1=P1/(D1*T1)	INT2	21
	R2=P2/(D2*T2)	INT2	22
C	LINEAR INTERPOLATION ON GAS CONSTANT R	INT2	23
	R=(R2-R1)*A+R1	INT2	24
C	PRESSURE FROM PERFECT GAS LAW	INT2	25
	P = DZ * R * TZ	INT2	26
	D = DZ	INT2	27
	T = TZ	INT2	28
	RETURN	INT2	29
30	P=O.	INT2	30
	D=O.	INT2	31
	T=O.	INT2	32
	RETURN	INT2	33
	END	INT2	34
	SUBROUTINE INTER4 (CLAT, CLON, IZ, P, D, T,	INT4	1
	\$ P4,D4,T4,DPX,DPY,DTX,DTY)	INT4	2
	COMMON/IOTEMP/IOTEM1,IOTEM2,IUS,DD,XMJD,PHI1,PHI,	INT4	3
	& NSAME,DUMMY2(55)	INT4	4
C	INTERPOLATES BETWEEN 4D ARRAYS P(I,IH),D(I,IH),T(I,IH) AT GRID	INT4	5
C	LOCATIONS LATITUDE GLAT(I) LONGITUDE GLON(I).	INT4	6
C	CLAT,CLON = CURRENT LATITUDE, LONGITUDE	INT4	7
C	IZ = HEIGHT NG = NUMBER OF 4D GRID POSITIONS	INT4	8
C	OUTPUT = P4,D4,T4, AND DERIVATIVES DPX,DPY,DTX,DTY	INT4	9
	COMMON/C4/GLAT(16),GLON(16),NG,DUMMY(2499)	INT4	10
	COMMON/CHIC/LA(4,4),NB(2),IWSYM,USH,VSH,DUSH,DVSH	INT4	11
	DIMENSION P(16,26),D(16,26),T(16,26),LAX(16)	INT4	12
	IWSYM=ICHAR(' ')	INT4	13
	ICLK = O	INT4	14
C	HEIGHT INDEX = HEIGHT + 1	INT4	15
	IH = IZ + 1	INT4	16
5	IF (ICLK.GT.1) GO TO 220	INT4	17
	IF (NG.GT.9) GO TO 100	INT4	18
C	NG = 9 MEANS POLAR GRID	INT4	19
	XLON=CLON	INT4	20
	DO 10 I=10,16,1	INT4	21
	P(I,IH) = P(9,IH)	INT4	22
	D(I,IH) = D(9,IH)	INT4	23
	T(I,IH) = T(9,IH)	INT4	24
	GLAT(I) = GLAT(9)	INT4	25
C	I=10-16 ALL AT 90 DEG	INT4	26
10	GLON(I) = GLON(I-8)	INT4	27

C	LOWER RIGHT INTERPOLATION INDEX	INT4	28
	IB = INT(CLON/45) + 1	INT4	29
C	LOWER LEFT INTERPOLATION INDEX	INT4	30
	IA = IB+1	INT4	31
	IF (IA.GT.8) IA = IA-8	INT4	32
C	POSITION OUTSIDE POLAR GRID	INT4	33
	IF (ABS(CLAT).LT.75.) GO TO 20	INT4	34
C	UPPER LEFT INTERPOLATION INDEX	INT4	35
	IC = IA + 8	INT4	36
C	UPPER RIGHT INTERPOLATION INDEX	INT4	37
	ID = IB + 8	INT4	38
	GO TO 300	INT4	39
20	IF(NSAME.EQ.1) NSAME=2	INT4	40
	CALL GEN4D	INT4	41
	ICLK = ICHK + 1	INT4	42
	GO TO 5	INT4	43
100	XLON = CLON	INT4	44
	DO 105 I = 1,4	INT4	45
	DO 105 J = 1,4	INT4	46
	I16 = 4*(I-1) + J	INT4	47
	LAX(I16) = LA(I,J)	INT4	48
105	CONTINUE	INT4	49
	IF(XLON-GLON(1).GT.180.)XLON = CLON - 360.	INT4	50
C....	CHECKS FOR POSITION WITHIN 16 POINT GRID 110=GOOD. 200=POSITION	INT4	51
C	OUTSIDE GRID.	INT4	52
	IF (CLAT.GE.GLAT(1) .AND. CLAT.LT.GLAT(16) .AND. XLON.LE.GLON(1)	INT4	53
	\$.AND.XLON.GT.GLON(16)) GO TO 110	INT4	54
	GO TO 200	INT4	55
110	NDL=5	INT4	56
	IF(ABS(CLAT).LT.18) NDL=12	INT4	57
	IA = 1 + INT((GLON(1) - XLON) / 5)	INT4	58
C....	IA = LOWER LEFT (REFERENCE) INTERPOLATION INDEX	INT4	59
	IA = IA + 4 * INT((CLAT - GLAT(1)) / NDL)	INT4	60
C	LOWER RIGHT INTERPOLATION INDEX	INT4	61
	IB = IA + 1	INT4	62
C	UPPER LEFT INTERPOLATION INDEX	INT4	63
	IC = IA + 4	INT4	64
C	UPPER RIGHT INTERPOLATION INDEX	INT4	65
	ID = IA + 5	INT4	66
	GO TO 300	INT4	67
200	IF(NSAME.EQ.1)NSAME=2	INT4	68
	CALL GEN4D	INT4	69
	ICLK = ICHK + 1	INT4	70
	GO TO 5	INT4	71
220	WRITE(6,250)	INT4	72
250	FORMAT(' UNABLE TO GENERATE 4-D GRID. TOO MANY RETRIES IN INTER4')	INT4	73
	P4=0.	INT4	74
	D4=0.	INT4	75
	T4=0.	INT4	76
	RETURN	INT4	77
C....	INTERPOLATION FOR POSITION INSIDE 16 POINT GRID OR POLAR GRID	INT4	78
300	CALL INTLL(P,IA,IB,IC,ID,P4,GLAT,GLON,CLAT,XLON,IH)	INT4	79
	CALL INTLL(D,IA,IB,IC,ID,D4,GLAT,GLON,CLAT,XLON,IH)	INT4	80
	CALL INTLL(T,IA,IB,IC,ID,T4,GLAT,GLON,CLAT,XLON,IH)	INT4	81

C.....RELATIVE LONGITUDE DISPLACEMENT FROM REFERENCE POSITION (IA)	INT4	82
DLON = (XLON - GLON(IA))/(GLON(IB) - GLON(IA))	INT4	83
C.....RELATIVE LATITUDE DISPLACEMENT FROM REFERENCE POSITION(IA)	INT4	84
DLAT = (CLAT - GLAT(IA))/(GLAT(IC) - GLAT(IA))	INT4	85
DPX=P(IB,IH)-P(IA,IH)	INT4	86
C.....DP/DX FOR GEOSTROPHIC WIND EQUATIONS	INT4	87
DPX = DPX + (P(ID,IH) - P(IC,IH) - DPX)*DLAT	INT4	88
DTX = T(IB,IH) - T(IA,IH)	INT4	89
C.....DT/DX FOR THERMAL WIND EQUATIONS	INT4	90
DTX = DTX + (T(ID,IH) - T(IC,IH) - DTX)*DLAT	INT4	91
DPY = P(IC,IH) - P(IA,IH)	INT4	92
C.....DP/DY FOR GEOSTROPHIC WIND EQUATIONS	INT4	93
DPY = DPY + (P(ID,IH) - P(IB,IH) - DPY)*DLON	INT4	94
DTY = T(IC,IH) - T(IA,IH)	INT4	95
C.....DT/DY FOR THERMAL WIND EQUATIONS	INT4	96
DTY = DTY + (T(ID,IH) - T(IB,IH) - DTY)*DLON	INT4	97
IF(NG.GT.9) GO TO 315	INT4	98
DPX=DPX/9.	INT4	99
DTX=DTX/9.	INT4	100
DPY=SIGN(DPY/3.,CLAT)	INT4	101
DTY=SIGN(DTY/3.,CLAT)	INT4	102
315 IF(ABS(CLAT).GT.18) GO TO 312	INT4	103
DPY=DPY*5./12	INT4	104
DTY=DTY*5./12	INT4	105
312 RETURN	INT4	106
END	INT4	107
SUBROUTINE INTLL(F,IA,IB,IC,ID,FLL,GLAT,GLON,CLAT,CLON,IH)	INTL	1
C.....INTERPOLATES FUNCTION (ARRAY) F FROM VALUES OF GLAT AND GLON AT	INTL	2
C INDEX VALUES IA, IB, IC, ID TO OUTPUT VALUE FLL AT HEIGHT IH	INTL	3
C AND POSITION CLAT, CLON	INTL	4
DIMENSION F(16,26),GLAT(16),GLON(16)	INTL	5
C.....NORMALIZES LONGITUDE DISPLACEMENT	INTL	6
IF(F(IA,IH)*F(IB,IH)*F(IC,IH)*F(ID,IH)) 20,10,20	INTL	7
10 FLL=0.	INTL	8
RETURN	INTL	9
20 X=(CLON-GLON(IB))/(GLON(IA)-GLON(IB))	INTL	10
C.....NORMALIZES LATITUDE DISPLACEMENT	INTL	11
Y=(CLAT-GLAT(IA))/(GLAT(IC)-GLAT(IA))	INTL	12
C.....TWO DIMENSIONAL INTERPOLATION	INTL	13
FLL=F(IB,IH)+(F(ID,IH)-F(IB,IH))*Y+(F(IA,IH)-F(IB,IH))*X	INTL	14
1 +(F(IC,IH)-F(IA,IH)-F(ID,IH)+F(IB,IH))*X*Y	INTL	15
RETURN	INTL	16
END	INTL	17
SUBROUTINE INTRP4 (LALON)	INTR	1
C	INTR	2
C SUBROUTINE TO INTERPOLATE VALUES	INTR	3
C	INTR	4
DIMENSION XLL(4),YLL(4),XC(4),YC(4)	INTR	5
C	INTR	6
COMMON/INT/D(208,5),IG(5),DXY(2),DLA(4),DLO(4)	INTR	7
C	INTR	8
DEGRAD=3.14159/180.	INTR	9
LALO=IABS(LALON)	INTR	10
L1=LALO/10000	INTR	11

L2=LALO-L1*10000	INTR	12
XL=L1/10.	INTR	13
YL=L2/10.	INTR	14
IF (IG(5)-2) 30,20,10	INTR	15
10 IF (IG(5)-3) 30,30,50	INTR	16
C	INTR	17
C INTERPOLATE FROM NMC GRID	INTR	18
C	INTR	19
20 CONTINUE	INTR	20
DO 25 L=1,26	INTR	21
DO 22 J=1,4	INTR	22
22 IF (D(L,J).LT.O.O1) GO TO 25	INTR	23
DO 24 K=1,8	INTR	24
I=(K-1)*26+L	INTR	25
D(I,5)=(1.-DXY(2))*((1.-DXY(1))*D(I,1)+DXY(1)*D(I,2))	INTR	26
+DXY(2)*((1.-DXY(1))*D(I,3)+DXY(1)*D(I,4))	INTR	27
24 CONTINUE	INTR	28
25 CONTINUE	INTR	29
RETURN	INTR	30
C	INTR	31
C INTERPOLATE FROM EQUATION FOR SOUTHERN HEMISPHERE GRID	INTR	32
C	INTR	33
30 CONTINUE	INTR	34
DO 32 J=1,2	INTR	35
XLL(J)=DLA(J)	INTR	36
YLL(J)=DLO(J)	INTR	37
IF ((YL.GE.355.).AND.(YLL(J).LT.O.O1)) YLL(J)=360.	INTR	38
32 CONTINUE	INTR	39
X=(YLL(1)-YL)/5.	INTR	40
Y=(XL-XLL(1))/5.	INTR	41
IF (IG(5).EQ.3) Y=-Y	INTR	42
DO 38 L=1,26	INTR	43
DO 36 J=1,4	INTR	44
36 IF (D(L,J).LT.O.O1) GO TO 38	INTR	45
DO 37 K=1,8	INTR	46
I=(K-1)*26+L	INTR	47
D(I,5)=D(I,1)+X*(D(I,2)-D(I,1))+Y*(D(I,3)-D(I,1))+X*Y*	INTR	48
+ (D(I,4)-D(I,3)-D(I,2)+D(I,1))	INTR	49
37 CONTINUE	INTR	50
38 CONTINUE	INTR	51
RETURN	INTR	52
C	INTR	53
C INTERPOLATE FROM ACROSS GRIDS	INTR	54
C	INTR	55
50 CONTINUE	INTR	56
IF (IG(5).NE.1133) GO TO 55	INTR	57
IG(5)=3	INTR	58
GO TO 30	INTR	59
55 CONTINUE	INTR	60
IF (IG(5).NE.333) GO TO 60	INTR	61
DLO(1)=(DLO(2)+DLO(3))/2.	INTR	62
DO 52 I=1,208	INTR	63
52 D(I,4)=D(I,3)	INTR	64
DLA(4)=DLA(3)	INTR	65

DLO(4)=DLO(3)	INTR 66
60 CONTINUE	INTR 67
DO 62 I=1,4	INTR 68
XLL(I)=DLA(I)	INTR 69
YLL(I)=DLO(I)	INTR 70
IF ((YL.GT.350.).AND.(YLL(I).LT.O.O1)) YLL(I)=360.	INTR 71
62 CONTINUE	INTR 72
ITH=O	INTR 73
X=YLL(1)-YL	INTR 74
Y=XL-XLL(1)	INTR 75
63 CONTINUE	INTR 76
DO 65 I=2,4	INTR 77
XC(I)=YLL(1)-YLL(I)	INTR 78
65 YC(I)=XLL(I)-XLL(1)	INTR 79
TH2=3.14159/4	INTR 80
TH3=3.14159/4	INTR 81
IF (ABS(XC(2)).GT.O.O1) TH2=ATAN(YC(2)/XC(2))	INTR 82
IF (ABS(YC(3)).GT.O.O1) TH3=ATAN(XC(3)/YC(3))	INTR 83
IF (XC(2).LT.O.) TH2=3.14159+TH2	INTR 84
IF (XC(3).LT.O.) TH3=3.14159+TH3	INTR 85
DNN=COS(TH2+TH3)	INTR 86
IF (ABS(DNN).GT.O.OO1) GO TO 66	INTR 87
ITH=ITH+1	INTR 88
IF (ITH.EQ.2) GO TO 66	INTR 89
XLL(3)=XLL(4)	INTR 90
YLL(3)=YLL(4)	INTR 91
DO 61 I=1,208	INTR 92
61 D(I,3)=D(I,4)	INTR 93
GO TO 63	INTR 94
66 CONTINUE	INTR 95
ZA=SQRT(XC(2)**2+YC(2)**2)	INTR 96
IF (ITH.LT.2) GO TO 69	INTR 97
Z=SQRT(X**2+Y**2)	INTR 98
E=O.	INTR 99
Z4=O.	INTR 100
GO TO 71	INTR 101
69 CONTINUE	INTR 102
EB=SQRT(XC(3)**2+YC(3)**2)	INTR 103
Z4=(XC(4)*COS(TH3)-YC(4)*SIN(TH3))/DNN	INTR 104
E4=(YC(4)*COS(TH2)-XC(4)*SIN(TH2))/DNN	INTR 105
Z=(X*COS(TH3)-Y*SIN(TH3))/DNN	INTR 106
E=(Y*COS(TH2)-X*SIN(TH2))/DNN	INTR 107
B=O.	INTR 108
C=O.	INTR 109
DD=O.	INTR 110
C	INTR 111
71 CONTINUE	INTR 112
DO 70 L=1,26	INTR 113
DO 68 J=1,4	INTR 114
68 IF (D(L,J).LT.O.O1) GO TO 70	INTR 115
DO 67 K=1,8	INTR 116
I=(K-1)*26+L	INTR 117
A=D(I,1)	INTR 118
IF (ZA.GT.O.O1) B=(D(I,2)-D(I,1))/ZA	INTR 119

IF (EB.GT.0.01) C=(D(I,3)-D(I,1))/EB	INTR 120
IF ((ABS(Z4).GT.0.01).AND.(ABS(E4).GT.0.01))	INTR 121
1 DD=(D(I,4)-A-B*Z4-C*E4)/(Z4+E4)	INTR 122
D(I,5)=A+B*Z+C*E+DD*Z+E	INTR 123
67 CONTINUE	INTR 124
70 CONTINUE	INTR 125
RETURN	INTR 126
END	INTR 127
SUBROUTINE INTRUV(UR,VR,H,PHI,SUH,SVH)	INUV 1
C.....FINDS RANDOM WIND STANDARD DEVIATION AT HEIGHT H (KM), LATITUDE	INUV 2
C PHI (DEGREES), FROM UR AND VR ARRAYS	INUV 3
DIMENSION UR(29,19),VR(29,19)	INUV 4
C.....I - LOWER HEIGHT INDEX	INUV 5
I=1+INT(H)/5	INUV 6
IF (H.GE.125) I=25+(INT(H)-120)/20	INUV 7
IF (I.GT.29) I=29	INUV 7A
C UPPER HEIGHT INDEX	INUV 8
IP=I+1	INUV 9
IF (IP.GT.29) IP=29	INUV 10
C LOWER LATITUDE INDEX	INUV 11
J=INT(PHI+100.)/10	INUV 12
C UPPER LATITUDE INDEX	INUV 13
JP=J+1	INUV 14
IF (JP.GT.19) JP=19	INUV 15
C.....PHI1 - LOWER LATITUDE FOR UR AND VR ARRAY VALUES	INUV 16
PHI1=-100.+10.*J	INUV 17
C.....PHI2 - UPPER LATITUDE FOR UR AND VR ARRAY VALUES	INUV 18
PHI2=-100.+10.*JP	INUV 19
IF (I.GT.25) GO TO 10	INUV 20
C LOWER HEIGHT FOR UR AND VR ARRAY VALUES	INUV 21
Z1=5.*(I-1)	INUV 22
GO TO 20	INUV 23
10 Z1=20.*(I-19)	INUV 24
20 IF(IP.GT.25) GO TO 30	INUV 25
C UPPER HEIGHT FOR UR AND VR ARRAY VALUES	INUV 26
Z2=5.*(IP-1)	INUV 27
GO TO 40	INUV 28
30 Z2=20.*(IP-19)	INUV 29
C INTERPOLATE ON LATITUDE AT LOWER HEIGHT	INUV 30
40 CALL INTERW(UR(I,J),VR(I,J),PHI1,UR(I,JP),VR(I,JP),PHI2,U1,V1,	INUV 31
\$PHI)	INUV 32
C INTERPOLATE ON LATITUDE AT UPPER HEIGHT	INUV 33
CALL INTERW(UR(IP,J),VR(IP,J),PHI1,UR(IP,JP),VR(IP,JP),PHI2,U2,V2,	INUV 34
\$PHI)	INUV 35
C INTERPOLATE ON HEIGHT	INUV 36
CALL INTERW(U1,V1,Z1,U2,V2,Z2,SUH,SVH,H)	INUV 37
RETURN	INUV 38
END	INUV 39
SUBROUTINE INTRW(WR,H,SWH)	INRW 1
C.....FINDS RANDOM WIND STANDARD DEVIATION AT HEIGHT H (KM),	INRW 2
C FROM WR ARRAYS	INRW 3
DIMENSION WR(29)	INRW 4
C.....I - LOWER HEIGHT INDEX	INRW 5
I=1+INT(H)/5	INRW 6
IF (H.GE.125) I=25+(INT(H)-120)/20	INRW 7

	IF (I.GT.29) I=29	INRW	8
C	UPPER HEIGHT INDEX	INRW	9
	IP=I+1	INRW	10
	IF (IP.GT.29) IP=29	INRW	11
	IF (I.EQ.IP) GO TO 50	INRW	12
	IF (I.GT.25) GO TO 10	INRW	13
C	LOWER HEIGHT FOR WR ARRAY VALUES	INRW	14
	Z1=5.*(I-1)	INRW	15
	GO TO 20	INRW	16
10	Z1=20.*(I-19)	INRW	17
20	IF(IP.GT.25) GO TO 30	INRW	18
C	UPPER HEIGHT FOR WR ARRAY VALUES	INRW	19
	Z2=5.*(IP-1)	INRW	20
	GO TO 40	INRW	21
30	Z2=20.*(IP-19)	INRW	22
C	INTERPOLATE ON HEIGHT	INRW	23
40	A=(H-Z1)/(Z2-Z1)	INRW	24
	SWH=WR(I) + (WR(IP)-WR(I))*A	INRW	25
	RETURN	INRW	26
50	SWH=WR(I)	INRW	27
	RETURN	INRW	28
	END	INRW	29
	SUBROUTINE INTR25(UR,VR,H,PHI,SUH,SVH)	IN25	1
C.....	FINDS LARGE SCALE FRACTIONAL VARIANCES AT HEIGHT H (KM),LATITUDE	IN25	2
C	PHI (DEGREES), FROM UR AND VR ARRAYS	IN25	3
	DIMENSION UR(25,10),VR(25,10)	IN25	4
C.....	I - LOWER HEIGHT INDEX	IN25	5
	IF (H.LT.95.) I = 1 + INT(H) / 5	IN25	6
	IF (H.GE.95.) I=19+(INT(H)-80)/20	IN25	7
	IF (I.GT.25) I = 25	IN25	8
C	UPPER HEIGHT INDEX	IN25	9
	IP=I+1	IN25	10
	IF (IP.GT.25) IP=25	IN25	11
C	LOWER LATITUDE INDEX	IN25	12
	J=INT(PHI+110.)/20	IN25	13
C	UPPER LATITUDE INDEX	IN25	14
	JP=J+1	IN25	15
	IF (JP.GT.10) JP=10	IN25	16
C.....	PHI1 - LOWER LATITUDE FOR UR AND VR ARRAY VALUES	IN25	17
	PHI1=-110.+20.*J	IN25	18
C.....	PHI2 - UPPER LATITUDE FOR UR AND VR ARRAY VALUES	IN25	19
	PHI2=-110.+20.*JP	IN25	20
	IF (I.GT.19) GO TO 10	IN25	21
C	LOWER HEIGHT FOR UR AND VR ARRAY VALUES	IN25	22
	Z1=5.*(I-1)	IN25	23
	GO TO 20	IN25	24
10	Z1=20.*(I-15)	IN25	25
20	IF (IP.GT.19) GO TO 30	IN25	26
C	UPPER HEIGHT FOR UR AND VR ARRAY VALUES	IN25	27
	Z2=5.*(IP-1)	IN25	28
	GO TO 40	IN25	29
30	Z2 = 20. * (IP - 15)	IN25	30
C	INTERPOLATE ON LATITUDE AT LOWER HEIGHT	IN25	31
40	CALL INTERW(UR(I,J),VR(I,J),PHI1,UR(I,JP),VR(I,JP),PHI2,U1,V1,	IN25	32

	\$PHI)	IN25	33
C	INTERPOLATE ON LATITUDE AT UPPER HEIGHT	IN25	34
	CALL INTERW(UR(IP,J),VR(IP,J),PHI1,UR(IP,JP),VR(IP,JP),PHI2,U2,V2,	IN25	35
	\$PHI)	IN25	36
C	INTERPOLATE ON HEIGHT	IN25	37
	CALL INTERW(U1,V1,Z1,U2,V2,Z2,SUH,SVH,H)	IN25	38
	RETURN	IN25	39
	END	IN25	40
	SUBROUTINE JAC(Z,T,TZ,AN,AO2,AO,AA,AHE,AH,EM,DENS,DL)	JAC	1
		JAC	2
		JAC	3
C*****		**JAC	4
C**		**JAC	5
C**	'JAC' CALCULATES THE TEMPERATURE TZ , THE TOTAL DENSITY DENS AND	**JAC	6
C**	ITS LOGARITHM DL, THE MEAN MOLECULAR WEIGHT EM, THE INDIVIDUAL	**JAC	7
C**	SPECIE NUMBER DENSITIES FOR N, O2, O, A, HE AND H (EACH PRECEDED	**JAC	8
C**	WITH AN 'A') AT ALTITUDE Z GIVEN THE EXOSPHERIC TEMPERATURE T.	**JAC	9
C**	THIS SUBROUTINE USES THE SUBROUTINE 'GAUSS' AND THE FUNCTION	**JAC	10
C**	SUBPROGRAMS 'TEMP' AND 'MOLWT'.	**JAC	11
C*****		JAC	12
		JAC	13
	PARAMETER (AV = 6.02257E23)	JAC	14
	PARAMETER (QN = .78110)	JAC	15
	PARAMETER (QO2 = .20955)	JAC	16
	PARAMETER (QA = .009343)	JAC	17
	PARAMETER (QHE = 1.289E-05)	JAC	18
	PARAMETER (RGAS = 8.31432)	JAC	19
	PARAMETER (PI = 3.14159265)	JAC	20
	PARAMETER (TO = 183.)	JAC	21
	DIMENSION ALPHA(6) , EI(6) , DI(6) , DIT(6)	JAC	22
	REAL MOLWT	JAC	23
		JAC	24
		JAC	25
		JAC	26
	DATA ALPHA / 0.0 , 0.0 , 0.0 , 0.0 , -.380 , 0.0 /	JAC	27
	DATA EI/28.0134,31.9988,15.9994,39.948,4.0026,1.00797/	JAC	28
		JAC	29
		JAC	30
		JAC	31
	TX = 444.3807 + .02385 * T - 392.8292 * EXP (-.0021357 * T)	JAC	32
	A2 = 2. * (T-TX) / PI	JAC	33
	TXTO = TX - TO	JAC	34
	T1 = 1.9 * TXTO / ' 35.	JAC	35
	T3 = -1.7 * TXTO / (35.**3)	JAC	36
	T4 = -0.8 * TXTO / (35.**4)	JAC	37
	TZ = TEMP (Z : TX , T1 , T3 , T4 , A2)	JAC	38
		JAC	39
		JAC	40
C**	SECTION 1	JAC	41
C**	-----	JAC	42
		JAC	43
	D = AMIN1 (Z , 105.)	JAC	44
		JAC	45
C	INTEGRATE GM/T FROM 90 TO MINIMUM OF Z OR 105 KM :-	JAC	46

CALL GAUSS(D,1,R,TX,T1,T3,T4,A2)	JAC	47
	JAC	48
C THE NUMBER 2.1926E-8 = DENSITY X TEMPERATURE/MEAN MOLECULAR WEIGHT	JAC	49
C AT 90 KM.	JAC	50
EM = MOLWT (D)	JAC	51
TD = TEMP (D , TX , T1 , T3 , T4 , A2)	JAC	52
	JAC	53
DENS = 2.1926E-8 * EM * EXP(-R / RGAS) / TD	JAC	54
	JAC	55
FACTOR = AV * DENS	JAC	56
PAR = FACTOR / EM	JAC	57
FACTOR = FACTOR / 28.96	JAC	58
	JAC	59
	JAC	60
C FOR ALTITUDES BELOW AND AT 105 KM CALCULATE THE INDIVIDUAL SPECIE	JAC	61
C NUMBER DENSITIES FROM THE MEAN MOLECULAR WEIGHT AND TOTAL DENSITY.	JAC	62
	JAC	63
IF (Z. LE. 105) THEN	JAC	64
	JAC	65
DL = ALOG10 (DENS)	JAC	66
AN = ALOG10 (QN * FACTOR)	JAC	67
AA = ALOG10 (QA * FACTOR)	JAC	68
AHE = ALOG10 (QHE * FACTOR)	JAC	69
AO = ALOG10 (2. * PAR * (1.-EM / 28.96))	JAC	70
AO2 = ALOG10 (PAR * (EM * (1.+QO2) / 28.96-1.))	JAC	71
AH = 0.	JAC	72
	JAC	73
C	JAC	74
C** RETURN TO CALLING PROGRAM	JAC	75
C	JAC	76
RETURN	JAC	77
	JAC	78
	JAC	79
END IF	JAC	80
	JAC	81
	JAC	82
	JAC	83
C** SECTION 2 : THIS SECTION IS ONLY PERFORMED FOR ALTITUDES	JAC	84
C** ----- ABOVE 105 KM.	JAC	85
	JAC	86
C NOTE THAT HAVING REACHED THIS SECTION MEANS THAT D IN SECTION 1 IS	JAC	87
C 105 KM.	JAC	88
	JAC	89
C CALCULATE INDIVIDUAL SPECIE NUMBER DENSITIES FROM THE TOTAL DENSITY	JAC	90
C AND MEAN MOLECULAR WEIGHT AT 105 KM ALTITUDE.	JAC	91
	JAC	92
DI(1) = QN * FACTOR	JAC	93
DI(2) = PAR * (EM * (1.+QO2) / 28.96-1.)	JAC	94
DI(3) = 2. * PAR * (1.- EM / 28.96)	JAC	95
DI(4) = QA * FACTOR	JAC	96
DI(5) = QHE * FACTOR	JAC	97
	JAC	98
C INTEGRATE G/T FROM 105 KM TO Z KM :-	JAC	99
	JAC	100

CALL GAUSS(Z,2,R,TX,T1,T3,T4,A2)	JAC 101
	JAC 102
DO 41 I = 1, 5	JAC 103
DIT(I) = DI(I)*(TD/TZ)**(1.+ALPHA(I))*EXP(-EI(I)*R/RGAS)	JAC 104
IF (DIT(I). LE. O.) DIT(I) = 1.E-6	JAC 105
CONTINUE	JAC 106
	JAC 107
	JAC 108
	JAC 109
	JAC 110
C** THIS SECTION CALCULATES ATOMIC HYDROGEN DENSITIES ABOVE 500 KM	JAC 111
C** ALTITUDE. BELOW THIS ALTITUDE , H DENSITIES ARE SET TO 10**-6.	JAC 112
	JAC 113
C** SECTION 3	JAC 114
C** -----	JAC 115
	JAC 116
IF (Z .GT. 500.) THEN	JAC 117
	JAC 118
A1 = 500.	JAC 119
S = TEMP (A1 , TX , T1 , T3 , T4 , A2)	JAC 120
	JAC 121
DI(6)=10.**(73.13-39.4*ALOG10(S)+5.5*ALOG10(S)*ALOG10(S))	JAC 122
	JAC 123
CALL GAUSS(Z,7,R,TX,T1,T3,T4,A2)	JAC 124
	JAC 125
DIT(6) = DI(6) * (S/TZ) * EXP (-EI(6) * R / RGAS)	JAC 126
	JAC 127
ELSE	JAC 128
	JAC 129
DIT (6) = 1.0	JAC 130
	JAC 131
END IF	JAC 132
	JAC 133
	JAC 134
	JAC 135
C FOR ALTITUDES GREATER THAN 105 KM , CALCULATE TOTAL DENSITY AND	JAC 136
C MEAN MOLECULAR WEIGHT FROM INDIVIDUAL SPECIE NUMBER DENSITIES.	JAC 137
	JAC 138
DENS=0	JAC 139
DO 42 I = 1, 6	JAC 140
DENS = DENS + EI(I) * DIT(I) / AV	JAC 141
CONTINUE	JAC 142
	JAC 143
EM=DENS*AV/(DIT(1)+DIT(2)+DIT(3)+DIT(4)+DIT(5)+DIT(6))	JAC 144
DL = ALOG10 (DENS)	JAC 145
	JAC 146
AN = ALOG10(DIT(1))	JAC 147
AO2 = ALOG10(DIT(2))	JAC 148
AO = ALOG10(DIT(3))	JAC 149
AA = ALOG10(DIT(4))	JAC 150
AHE = ALOG10(DIT(5))	JAC 151
AH = ALOG10(DIT(6))	JAC 152
	JAC 153
	JAC 154

RETURN	JAC	155
END	JAC	156
SUBROUTINE JACCH(Z,PHIR,THET,PH,DH,TH)	JACC	1
COMMON/IOTEMP/ID1,ID2,ID3,D5,D6,D7,D8,	JACC	2
& ID9,D10,D11,D12,D13,D14,D15,D16,D17,D18,D19,	JACC	3
& M, IDA,IYR,D20,D21,D22,D23,D24,D25,D26,D27,F10,F10B,AP,	JACC	4
& IHR,MIN,D28,D29,D30,D31,D32,DUMMY(24)	JACC	5
REAL INDATA(12),OUTDATA(12)	JACC	6
PI=3.14159265	JACC	7
INDATA(1)=Z	JACC	8
INDATA(2)=PHIR*180./PI	JACC	9
INDATA(3)=-THET	JACC	10
INDATA(4)=FLOAT(IYR)	JACC	11
INDATA(5)=FLOAT(M)	JACC	12
INDATA(6)=FLOAT(IDA)	JACC	13
INDATA(7)=FLOAT(IHR)	JACC	14
INDATA(8)=FLOAT(MIN)	JACC	15
INDATA(9)=2.	JACC	16
INDATA(10)=F10	JACC	17
INDATA(11)=F10B	JACC	18
INDATA(12)=AP	JACC	19
CALL J70(INDATA,OUTDATA)	JACC	20
PH=OUTDATA(12)	JACC	21
DH=OUTDATA(10)	JACC	22
TH=OUTDATA(2)	JACC	23
RETURN	JACC	24
END	JACC	25
SUBROUTINE J70 (INDATA, OUTDATA)	J70	1
C*****	J70	2
C**	**J70	3
C**	**J70	4
C** J70 DEVELOPED FROM J70MM BY	**J70	5
C** MIKE P. HICKEY	**J70	6
C** UNIVERSITIES SPACE RESEARCH ASSOCIATION	**J70	7
C** AT	**J70	8
C** NASA / MARSHALL SPACE FLIGHT CENTER, ED44,	**J70	9
C** HUNTSVILLE, ALABAMA, 35812, USA.	**J70	10
C** TEL. (205) 544-5692	**J70	11
C**	**J70	12
C**	**J70	13
C** INPUT DATA:	**J70	14
C** -----	**J70	15
C** Z -- ALTITUDE = INDATA (1)	**J70	16
C** XLAT -- LATITUDE = INDATA (2)	**J70	17
C** XLNG -- LONGITUDE = INDATA (3)	**J70	18
C** IYR -- YEAR (YY) = INDATA (4)	**J70	19
C** MN -- MONTH (MM) = INDATA (5)	**J70	20
C** IDA -- DAY (DD) = INDATA (6)	**J70	21
C** IHR -- HOUR (HH) = INDATA (7)	**J70	22
C** MIN -- MINS (MM) = INDATA (8)	**J70	23
C** I1 -- GEOMAGNETIC INDEX = INDATA (9)	**J70	24
C** F10 -- SOLAR RADIO NOISE FLUX = INDATA (10)	**J70	25
C** F10B -- 162-DAY AVERAGE F10 = INDATA (11)	**J70	26
C** GI -- GEOMAGNETIC ACTIVITY INDEX = INDATA (12)	**J70	27

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C**                                **J70 28
C**                                **J70 29
C**                                **J70 30
C**                                **J70 31
C**                                **J70 32
C**                                **J70 33
C**                                **J70 34
C**                                **J70 35
C**                                **J70 36
C**                                **J70 37
C**                                **J70 38
C**                                **J70 39
C**                                **J70 40
C**                                **J70 41
C**                                **J70 42
C**                                **J70 43
C**                                **J70 44
C**                                **J70 45
C**                                **J70 46
C*****J70 47
                                           J70 48
PARAMETER (RGAS = 8.31432E3)           J70 49
PARAMETER (BFH = 440.0)                J70 50
DIMENSION A ( 6 )                      J70 51
                                           J70 52
REAL INDATA ( 12 ), OUTDATA ( 12 )    J70 53
                                           J70 54
C CALCULATIONS PERFORMED FOR ONLY ONE LATITUDE , ONE LONGITUDE J70 55
C AND ONE ALTITUDE                     J70 56
C                                       J70 57
C                                       J70 58
C** SET PARAMETERS TO INDATA VALUES   J70 59
C                                       J70 60
C                                       J70 61
Z      = INDATA ( 1 )                  J70 62
XLAT   = INDATA ( 2 )                  J70 63
XLNG   = INDATA ( 3 )                  J70 64
IYR     = INT ( INDATA ( 4 ) ) + 1900 J70 65
MN      = INT ( INDATA ( 5 ) )         J70 66
IDA     = INT ( INDATA ( 6 ) )         J70 67
IHR     = INT ( INDATA ( 7 ) )         J70 68
MIN     = INT ( INDATA ( 8 ) )         J70 69
I1      = INT ( INDATA ( 9 ) )         J70 70
F10     = INDATA ( 10 )                J70 71
F10B    = INDATA ( 11 )               J70 72
GI       = INDATA ( 12 )              J70 73
                                           J70 74
CALL TME(MN,IDA,IYR,IHR,MIN,XLAT,XLNG,SDA,SHA,DD,DY) J70 75
                                           J70 76
CALL TINF ( F10 , F10B , GI , XLAT , SDA , SHA , DY , I1 , TE ) J70 77
                                           J70 78
CALL JAC(Z,TE,TZ,A(1),A(2),A(3),A(4),A(5),A(6),EM,DENS,DL) J70 79
                                           J70 80
DENLG = 0.                             J70 81
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DUMMY = DL	J70	82
DEN = DL	J70	83
	J70	84
IF (Z .LE. 170.) THEN	J70	85
CALL SLV (DUMMY , Z , XLAT , DD)	J70	86
DENLG = DUMMY	J70	87
END IF	J70	88
	J70	89
C	J70	90
C** 'FAIR' HELIUM NUMBER DENSITY BETWEEN BASE FAIRING HEIGHT (BFH)	J70	91
C AND 500 KM.	J70	92
	J70	93
IF (Z .GE. 500.) THEN	J70	94
CALL SLVH (DEN , A(5) , XLAT , SDA)	J70	95
DL = DEN	J70	96
ELSE IF (Z .GT. BFH) THEN	J70	97
DHEL1 = A (5)	J70	98
DHEL2 = A (5)	J70	99
DLG1 = DL	J70	100
DLG2 = DL	J70	101
CALL SLVH (DLG2 , DHEL2 , XLAT , SDA)	J70	102
IH = Z	J70	103
CALL FAIR5(DHEL1,DHEL2,DLG1,DLG2,IH,FDHEL,FDLG)	J70	104
DL = FDLG	J70	105
A (5) = FDHEL	J70	106
END IF	J70	107
	J70	108
DL = DL + DENLG	J70	109
DENS = 10.**DL	J70	110
XLAT = XLAT * 57.29577951	J70	111
	J70	112
	J70	113
C FILL OUTDATA ARRAY	J70	114
OUTDATA (1) = TE	J70	115
OUTDATA (2) = TZ	J70	116
	J70	117
DO 80 I = 1, 6	J70	118
OUTDATA (I+2) = 1.E6 * (10. ** A(I))	J70	119
80 CONTINUE	J70	120
	J70	121
OUTDATA (9) = EM	J70	122
OUTDATA (10) = DENS * 1000.	J70	123
OUTDATA (11) = DL	J70	124
P = OUTDATA (10) * RGAS * TZ / EM	J70	125
OUTDATA (12) = P	J70	126
	J70	127
RETURN	J70	128
END	J70	129
REAL FUNCTION MOLWT(A)	MOWT	1
	MOWT	2
C*****	MOWT	3
C**	** MOWT	4
C** 'MOLWT' CALCULATES THE MOLECULAR WEIGHT FOR ALTITUDES BETWEEN	** MOWT	5
C** 90 AND 105 KM ACCORDING TO EQUATION (1) OF SAO REPORT 313.	** MOWT	6

C** OTHERWISE, MOLWT IS SET TO UNITY.	** MOWT	7
C**	** MOWT	8
C*****	MOWT	9
	MOWT	10
DIMENSION B (7)	MOWT	11
DATA B / 28.15204 , -0.085586, 1.284E-4, -1.0056E-5, -1.021E-5,	MOWT	12
1.5044E-6, 9.9826E-8 /	MOWT	13
	MOWT	14
IF (A. GT. 105.) THEN	MOWT	15
	MOWT	16
MOLWT = 1.	MOWT	17
	MOWT	18
ELSE	MOWT	19
	MOWT	20
U = A - 100.	MOWT	21
MOLWT = B (1)	MOWT	22
DO 1 I = 2 , 7	MOWT	23
	MOWT	24
MOLWT = MOLWT + B (I) * U ** (I-1)	MOWT	25
	MOWT	26
1 CONTINUE	MOWT	27
	MOWT	28
END IF	MOWT	29
	MOWT	30
END	MOWT	31
SUBROUTINE PDTUV (PSP,DSP,TSP,USP,VSP,CLAT,CLON,IH,PS,DS,TS,	PDTU	1
& DPX,DPY,DTX,DTY,US,VS)	PDTU	2
C.....INTERPOLATES STATIONARY PERTURBATIONS ON LATITUDE AND LONGITUDE	PDTU	3
C AT HEIGHT IH	PDTU	4
DIMENSION PSP(15,19,18),DSP(15,19,18),TSP(15,19,18),USP(15,19,18),	PDTU	5
& VSP(15,19,18)	PDTU	6
C HEIGHT INDEX K	PDTU	7
10 K=(IH-15)/5	PDTU	8
30 XLON = CLON	PDTU	9
C LOWER LONGITUDE INDEX J	PDTU	10
C.....DLON - RELATIVE LONGITUDE DEVIATION FROM CORNER REFERENCE LOCATION	PDTU	11
IF(XLON .LE. 180.)THEN	PDTU	12
J=INT((200.-XLON)/20.)	PDTU	13
DLON=(200.-XLON-20.*J)/20.	PDTU	14
ELSE	PDTU	15
J=INT((560.-XLON)/20.)	PDTU	16
DLON=(560.-XLON-20.*J)/20.	PDTU	17
END IF	PDTU	18
C UPPER LONGITUDE INDEX JP	PDTU	19
JP = J+1	PDTU	20
IF(JP .GT. 18) JP=1	PDTU	21
C LOWER LATITUDE INDEX I	PDTU	22
I=INT((CLAT+100.)/10.)	PDTU	23
C UPPER LATITUDE INDEX IP	PDTU	24
IP = I+1	PDTU	25
IF(IP .GT. 19)IP=19	PDTU	26
C.....DLAT - RELATIVE LATITUDE DEVIATION FROM CORNER REFERENCE LOCATION	PDTU	27
DLAT=(CLAT -10.*I+100.)/10.	PDTU	28
C PRESSURE LAT-LON INTERPOLATION	PDTU	29

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      PS=PSP(K,I,J)+(PSP(K,IP,J)-PSP(K,I,J))*DLAT+(PSP(K,I,JP)-PSP(K,I,JPDTU 30
1))*DLON+(PSP(K,IP,JP)-PSP(K,I,JP)-PSP(K,IP,J)+PSP(K,I,J))*DLAT* PDTU 31
2DLON PDTU 32
C DENSITY LAT-LON INTERPOLATION PDTU 33
DS=DSP(K,I,J)+(DSP(K,IP,J)-DSP(K,I,J))*DLAT+(DSP(K,I,JP)-DSP(K,I,JPDTU 34
1))*DLON+(DSP(K,IP,JP)-DSP(K,I,JP)-DSP(K,IP,J)+DSP(K,I,J))*DLAT* PDTU 35
2DLON PDTU 36
C TEMPERATURE LAT-LON INTERPOLATION PDTU 37
TS=TSP(K,I,J)+(TSP(K,IP,J)-TSP(K,I,J))*DLAT+(TSP(K,I,JP)-TSP(K,I,JPDTU 38
1))*DLON+(TSP(K,IP,JP)-TSP(K,I,JP)-TSP(K,IP,J)+TSP(K,I,J))*DLAT* PDTU 39
2DLON PDTU 40
C.... ZONAL WIND LAT-LON INTERPOLATION PDTU 41
US=USP(K,I,J)+(USP(K,IP,J)-USP(K,I,J))*DLAT+(USP(K,I,JP)-USP(K,I,JPDTU 42
1))*DLON+(USP(K,IP,JP)-USP(K,I,JP)-USP(K,IP,J)+USP(K,I,J))*DLAT* PDTU 43
2DLON PDTU 44
C.... MERIDIONAL WIND LAT-LON INTERPOLATION PDTU 45
VS=VSP(K,I,J)+(VSP(K,IP,J)-VSP(K,I,J))*DLAT+(VSP(K,I,JP)-VSP(K,I,JPDTU 46
1))*DLON+(VSP(K,IP,JP)-VSP(K,I,JP)-VSP(K,IP,J)+VSP(K,I,J))*DLAT* PDTU 47
2DLON PDTU 48
C.... DPX = DP/DX FOR GEOSTROPHIC WINDS PDTU 49
DPX = (PSP(K,I,J)-PSP(K,I,JP))/4. PDTU 50
DPX = DPX + ((PSP(K,IP,J)-PSP(K,IP,JP))/4. - DPX)*DLAT PDTU 51
C.... DPY = DP/DY FOR GEOSTROPHIC WINDS PDTU 52
DPY=(PSP(K,IP,J)-PSP(K,I,J))/2. PDTU 53
DPY= DPY + ((PSP(K,IP,JP)-PSP(K,I,JP))/2. - DPY)*DLON PDTU 54
C.... DTX = DT/DX FOR THERMAL WINDS PDTU 55
DTX = (TSP(K,I,J)-TSP(K,I,JP))/4. PDTU 56
DTX = DTX + ((TSP(K,IP,J)-TSP(K,IP,JP))/4. - DTX)*DLAT PDTU 57
C.... DTY = DT/DY FOR THERMAL WINDS PDTU 58
DTY=(TSP(K,IP,J)-TSP(K,I,J))/2. PDTU 59
DTY= DTY + ((TSP(K,IP,JP)-TSP(K,I,JP))/2. - DTY)*DLON PDTU 60
RETURN PDTU 61
END PDTU 62
SUBROUTINE PERTRB PERT 1
COMMON /IOTEMP/IOTEM1,IOTEM2,IUS,DD,XMJD,PHI1,PHI,NSAME, PERT 2
$PL1,DL1,TL1,SPL1,SDL1,STL1,UL1,VL1,SUL1,SVL1,MN,IDA,IYR, PERT 3
1PH,PLAT, PERT 4
* PLON,G,R,CH,CLAT,CLON,F10,F10B,AP,IHR,MIN,NMORE,DX,HL,VL,DZ, PERT 5
2B,EPS,IOPP,LOOK,IET,FLAT,PS1,DS1,TS1,US1,VS1,SPS1,SDS1, PERT 6
3STS1,SUS1,SVS1,UDS1,VDS1,UDL1,VDL1,UDS2,VDS2,UDL2,VDL2 PERT 7
COMMON /COMPER/SP2,SD2,ST2,P2,D2,T2,U2,V2,SU2,SV2,CP, PERT 8
1PS2,DS2,TS2,US2,VS2, PERT 9
2PL2,DL2,TL2,UL2,VL2, PERT 10
3SPS2,SDS2,STS2,SUS2,SVS2, PERT 11
4SPL2,SDL2,STL2,SUL2,SVL2 PERT 12
COMMON /VERT/W1,SW1,W2,SW2,WR(29) PERT 13
COMMON /WINCOM/DUM(8),T,DUMMY2(9) PERT 14
COMMON /RAND/IX,IY,IZ PERT 15
DLON = ABS(CLON-PLON) PERT 16
PI = 3.1415927 PERT 17
IF(DLON.GT.PI) DLON = 2.*PI - DLON PERT 18
DX = R*SQRT((CLAT-PLAT)**2 + (COS(CLAT)*(DLON )**2) PERT 19
IF(ABS(DX).LT.O.O1.AND.ABS(DZ).LT.O.O1)DX = 0.01 PERT 20
C....DX IS HORIZONTAL DISTANCE BETWEEN POSITIONS PLAT,PLON AND CLAT,CLOPERT 21

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	AH = 900.	PERT 22
	BH = 6.	PERT 23
C	HORIZONTAL WAVELENGTH, KM	PERT 24
	HLL= AH + BH*CH	PERT 25
	DPHI=(90.-ABS(CLAT))/0.017453293)**2	PERT 26
	DHGT = 0.22 + 0.00258*(SQRT(ABS(CH)**3))	PERT 27
	IF (DHGT.GT.5.) DHGT = 5.	PERT 28
	VDS = (11.0 - 2.102E-4*DPHI)*DHGT	PERT 29
	VTS = (3.0 + 5.146E-4*DPHI)*DHGT	PERT 30
	VUS = (6.2 - 3.615E-4*DPHI)*DHGT	PERT 31
	VDL = (20.7 - 1.346E-3*DPHI)*DHGT	PERT 32
	VTL = 7.3*DHGT	PERT 33
	VUL = (31.2 - 3.503E-3*DPHI)*DHGT	PERT 34
	HLS = 20. + .0125*CH*CH	PERT 35
	IF(HLS.GT.400.) HLS = 400.	PERT 36
	HLS = (DX/HLS)**2	PERT 37
	HLL = (DX/HLL)**2	PERT 38
	RDS=SQRT(HLS+(DZ/VDS)**2)	PERT 39
	IF(RDS.LE. 50.)GO TO 10	PERT 40
	RDS=0.	PERT 41
	GO TO 20	PERT 42
10	RDS = CORREL(RDS)	PERT 43
20	RTS=SQRT(HLS+(DZ/VTS)**2)	PERT 44
	IF(RTS.LE. 50.)GO TO 30	PERT 45
	RTS=0.	PERT 46
	GO TO 40	PERT 47
30	RTS = CORREL(RTS)	PERT 48
40	RVS=SQRT(HLS+(DZ/VUS)**2)	PERT 49
	IF(RVS.LE. 50.)GO TO 50	PERT 50
	RVS=0.	PERT 51
	GO TO 60	PERT 52
50	RVS = CORREL(RVS)	PERT 53
60	RDL=SQRT(HLL+(DZ/VDL)**2)	PERT 54
	IF(RDL.LE. 50.)GO TO 70	PERT 55
	RDL=0.	PERT 56
	GO TO 80	PERT 57
70	RDL = CORREL(RDL)	PERT 58
80	RTL=SQRT(HLL+(DZ/VTL)**2)	PERT 59
	IF(RTL.LE. 50.)GO TO 90	PERT 60
	RTL=0.	PERT 61
	GO TO 100	PERT 62
90	RTL = CORREL(RTL)	PERT 63
100	RVL=SQRT(HLL+(DZ/VUL)**2)	PERT 64
	IF(RVL.LE. 50.)GO TO 110	PERT 65
	RVL=0.	PERT 66
	GO TO 120	PERT 67
110	RVL = CORREL(RVL)	PERT 68
120	CONTINUE	PERT 69
	CALL CORLAT(AS,BS,CS,DS,ES,FS,GS,HS,AIS,AJS,AKS,SPS1,SPS2,SDS1,	PERT 70
	1 SDS2,STS1,STS2,SUS1,SUS2,SVS1,SVS2,UDS1,UDS2,VDS1,VDS2,RDS,RTS,	PERT 71
	2RVS)	PERT 72
	CALL CORLAT(AL,BL,CL,DL,EL,FL,GL,HL,AJL,AJL,AKL,SPL1,SPL2,SDL1,	PERT 73
	1 SDL2,STL1,STL2,SUL1,SUL2,SVL1,SVL2,UDL1,UDL2,VDL1,VDL2,	PERT 74
	2RDL,RTL,RVL)	PERT 75

	IF(SW1 .LE. 0.)SW1=0.001	PERT 76
	IF(SW2 .LE. 0.)SW2=0.001	PERT 77
	AW=RVS*SW2/SW1	PERT 78
	BW=SW2*SQRT(1.-RVS*RVS)	PERT 79
	Z2 = RANDOM(L)	PERT 80
	ZD = PPND(Z2,L)	PERT 81
	Z2 = RANDOM(L)	PERT 82
	ZT = PPND(Z2,L)	PERT 83
	DS2=AS*DS1+BS*ZD	PERT 84
	TS2=CS*TS1+DS*DS2+ES*ZT	PERT 85
	PS2=DS2+TS2	PERT 86
	Z2 = RANDOM(L)	PERT 87
	ZD = PPND(Z2,L)	PERT 88
	Z2 = RANDOM(L)	PERT 89
	ZT = PPND(Z2,L)	PERT 90
	US2=FS*US1+GS*DS2+HS*ZD	PERT 91
	VS2=AI*VS1+AJ*DS2+AK*ZT	PERT 92
	Z2 = RANDOM(L)	PERT 93
	ZD = PPND(Z2,L)	PERT 94
	Z2 = RANDOM(L)	PERT 95
	ZT = PPND(Z2,L)	PERT 96
	DL2=AL*DL1+BL*ZD	PERT 97
	TL2=CL*TL1+DL*DL2+EL*ZT	PERT 98
	PL2=DL2+TL2	PERT 99
	Z2 = RANDOM(L)	PERT 100
	ZD = PPND(Z2,L)	PERT 101
	Z2 = RANDOM(L)	PERT 102
	ZT = PPND(Z2,L)	PERT 103
	UL2=FL*UL1+GL*DL2+HL*ZD	PERT 104
	VL2=AI*VL1+AJ*DL2+AK*ZT	PERT 105
	Z2=RANDOM(L)	PERT 106
	ZD=PPND(Z2,L)	PERT 107
	W2=AW*W1+BW*ZD	PERT 108
	P2=PS2+PL2	PERT 109
	D2=DS2+DL2	PERT 110
	T2=TS2+TL2	PERT 111
	IF(P2.LT.-0.9) P2= -0.9	PERT 112
	IF(D2.LT.-0.9) D2= -0.9	PERT 113
	IF(T2.LT.-0.9) T2= -0.9	PERT 114
	U2=US2+UL2	PERT 115
	V2=VS2+VL2	PERT 116
	UDL1=UDL2	PERT 117
	UDS1=UDS2	PERT 118
	VDL1=VDL2	PERT 119
	VDS1=VDS2	PERT 120
	RETURN	PERT 121
	END	PERT 122
	SUBROUTINE PHASE(D1,X1,D2,X2,D,X)	PHAS 1
	PER = 870.	PHAS 2
	IF (X2-X1) 20,10,20	PHAS 3
10	D = D1	PHAS 4
	RETURN	PHAS 5
20	DA = D1	PHAS 6
	DB = D2	PHAS 7

PER2 = PER/2.	PHAS	8
IF (ABS(DB-DA).LE.PER2)GO TO 30	PHAS	9
IF (DA.LT.PER2) DA = DA + PER	PHAS	10
IF (DB.LT.PER2) DB = DB + PER	PHAS	11
30 DA = DA + (DB - DA)*(X - X1)/(X2 - X1)	PHAS	12
IF (DA.GT.PER) DA = DA - PER	PHAS	13
IF(DA.LT.O.)DA=DA+PER	PHAS	14
D = DA	PHAS	15
RETURN	PHAS	16
END	PHAS	17
DOUBLE PRECISION FUNCTION PPND(P, IFAULT)	PPND	1
	PPND	2
ALGORITHM AS 111 APPL. STATIST. (1977) VOL. 26, P. 118	PPND	3
	PPND	4
PRODUCES NORMAL DEViate CORRESPONDING TO LOWER TAIL AREA OF P.	PPND	5
RETURNS IFAULT = 1 IN INPUT P >= 1 OR <= 0, IFAULT = 0	PPND	6
OTHERWISE. IF IFAULT = 1, PPND VALUE IS SET TO 0.	PPND	7
SINGLE PRECISION VERSION WITH ERROR EPSILON = 2 ** (-31).	PPND	8
FOR DOUBLE PRECISION VERSION, CHANGE REAL TO DOUBLE PRECISION	PPND	9
IN THE FUNCTION STATEMENT AND THE DECLARATION OF VARIABLES;	PPND	10
CHANGE EO TO DO IN THE DATA STATEMENTS AND CHANGE ABS, ALOG	PPND	11
AND SQRT TO DABS, DLOG AND DSQRT IN THE ASSIGNMENT STATEMENTS.	PPND	12
THE HASH SUMS ARE THE SUMS OF THE MODULI OF THE COEFFICIENTS.	PPND	13
THEY HAVE NO INHERENT MEANINGS, BUT ARE INCLUDED FOR USE IN	PPND	14
CHECKING TRANSPOSITIONS.	PPND	15
	PPND	16
DOUBLE PRECISION ZERO, SPLIT, HALF, ONE, AO, A1, A2, A3,	PPND	17
& B1, B2, B3, B4, CO, C1, C2, C3, D1, D2, P, Q, R	PPND	18
	PPND	19
DATA ZERO, HALF, ONE, SPLIT /0.000, 0.500, 1.000, 0.4200/	PPND	20
	PPND	21
DATA AO / 2.5066282388400/,	PPND	22
& A1 / -18.6150006252900/,	PPND	23
& A2 / 41.3911977353400/,	PPND	24
& A3 / -25.4410604963700/,	PPND	25
& B1 / -8.4735109309000/,	PPND	26
& B2 / 23.0833674374300/,	PPND	27
& B3 / -21.0622410182600/,	PPND	28
& B4 / 3.1308290983300/	PPND	29
	PPND	30
HASH SUM FOR A & B = 143.70383558076	PPND	31
	PPND	32
DATA CO / -2.7871893113800/,	PPND	33
& C1 / -2.2979647913400/,	PPND	34
& C2 / 4.8501412713500/,	PPND	35
& C3 / 2.3212127685800/,	PPND	36
& D1 / 3.5438892476200/,	PPND	37
& D2 / 1.6370678189700/	PPND	38
	PPND	39
HASH SUM FOR C & D = 17.43746520924	PPND	40
	PPND	41
	PPND	42
IFault = 0	PPND	43
Q = P - HALF	PPND	44

	IF(DABS(Q) .GT. SPLIT) GOTO 1	PPND 45
	R = Q * Q	PPND 46
	PPND = Q * (((A3 * R + A2) * R + A1) * R + A0) /	PPND 47
&	((((B4 * R + B3) * R + B2) * R + B1) * R + ONE)	PPND 48
	RETURN	PPND 49
1	R = P	PPND 50
	IF (Q .GT. ZERO) R = ONE - P	PPND 51
	IF (R .LE. ZERO) GOTO 2	PPND 52
	R = DSQRT(-DLOG(R))	PPND 53
	PPND = (((C3 * R + C2) * R + C1) * R + C0) /	PPND 54
&	((D2 * R + D1) * R + ONE)	PPND 55
	IF (Q .LT. ZERO) PPND = -PPND	PPND 56
	RETURN	PPND 57
2	IF AULT = 1	PPND 58
	PPND = ZERO	PPND 59
	RETURN	PPND 60
	END	PPND 61
	SUBROUTINE QBOGEN	QBOG 1
C.....	COMPUTES QBO VALUES PQ,DQ,TQ,UQ,VQ AT HEIGHT H, LATITUDE PHI	QBOG 2
C	ON JULIAN DAY XMJD FROM ARRAYS OF AMPLITUDES PAQ,DAQ,TAQ, -	QBOG 3
C	UAQ,VAQ AND PHASES PDQ,DDQ,TDQ,UDQ,VDQ.	QBOG 4
	COMMON /IOTEMP/ IOTEM1,IOTEM2,IUS,DDD,XMJD,PHI1,PHI,	QBOG 5
	NSAME,RP1, RD1, RT1, SP1, SD1, ST1, RU1, RV1, SU1, SV1,	QBOG 6
	\$ MN, IDA, IYR, H1, PHI1R,THET1R,G,RI,H,PHIR,THETR,F10,F10B,AP,	QBOG 7
&	IHR,MIN,NMORE,DX,HL,VL,DZ,DUMMY2(24)	QBOG 8
	COMMON /PDTCOM/IU4,MONTH,IOPR,	QBOG 9
	PSP(15,19,18),DSP(15,19,18),TSP(15,19,18),USP(15,19,18),	QBOG 10
	VSP(15,19,18),	QBOG 11
	PG(21,19),DG(21,19),TG(21,19),UG(21,19),	QBOG 12
	PAQ(17,5),DAQ(17,5),TAQ(17,5),UAQ(17,5),VAQ(17,5),	QBOG 13
	PDQ(17,5),DDQ(17,5),TDQ(17,5),UDQ(17,5),VDQ(17,5),	QBOG 14
	PR(29,19),DR(29,19),TR(29,19),UR(29,19),VR(29,19)	QBOG 15
	,PQ,DQ,TQ,UQ,VQ	QBOG 16
&	,PA,DA,TA,UA,VA,IOPQ,DUMMY(2250)	QBOG 17
	IF (XMJD.GT.0.AND.IOPQ.EQ.1) GO TO 10	QBOG 18
C	SETS QBO VALUES TO ZERO FOR ANNUAL MEAN	QBOG 19
	PQ=0.	QBOG 20
	DQ=0.	QBOG 21
	TQ=0.	QBOG 22
	UQ=0.	QBOG 23
	VQ=0.	QBOG 24
	RETURN	QBOG 25
C	LOWER HEIGHT INDEX	QBOG 26
10	IH = INT((H-5.)/5.)	QBOG 27
	IF (IH.LT.1) IH=1	QBOG 28
C	UPPER HEIGHT INDEX	QBOG 29
	IP = IH + 1	QBOG 30
	IF (IP.GT.17) IP = 17	QBOG 31
	PHA = ABS(PHI)	QBOG 32
C	LOWER LATITUDE INDEX	QBOG 33
		QBOG 34
	JL = INT((PHA + 10.)/20.)	QBOG 35
C	UPPER LATITUDE INDEX	QBOG 36
	JP = JL + 1	QBOG 37

IF (JL.LE.O) JL=1	QBOG 38
IF (JP.G1.5) JP=5	QBOG 39
C JULIAN DAY FOR JAN O, 1966	QBOG 40
XMJDO = 2439126	QBOG 41
C TIME RELATIVE TO JAN O, 1966	QBOG 42
TMJD = XMJD-XMJDO	QBOG 43
C 2*PI/PERIOD,PERIOD = 870 DAYS	QBOG 44
PER = 870.	QBOG 45
TP = 6.2831853/PER	QBOG 46
C LOWER HEIGHT	QBOG 47
HI = 5. + 5.*IH	QBOG 48
C LOWER LATITUDE	QBOG 49
PHIJ = 20.*JL - 10.	QBOG 50
C UPPER LATITUDE	QBOG 51
PHIP = 20.*JP-10.	QBOG 52
C.....INTERPOLATES QBO P,D,T AMPLITUDE ON LATITUDE AT LOWER HEIGHT	QBOG 53
CALL INTERZ(PAQ(IH,JL),DAQ(IH,JL),TAQ(IH,JL),PHIJ,PAQ(IH,JP),	QBOG 54
1DAQ(IH,JP),TAQ(IH,JP),PHIP,PA1,DA1,TA1,PHA)	QBOG 55
C UPPER HEIGHT	QBOG 56
HP = 5.+5.*IP	QBOG 57
C.....INTERPOLATES QBO P,D,T AMPLITUDE ON LATITUDE AT UPPER HEIGHT	QBOG 58
CALL INTERZ(PAQ(IP,JL),DAQ(IP,JL),TAQ(IP,JL),PHIJ,PAQ(IP,JP),	QBOG 59
2DAQ(IP,JP),TAQ(IP,JP),PHIP,PA2,DA2,TA2,PHA)	QBOG 60
C.....INTERPOLATES QBO P,D,T AMPLITUDE ON HEIGHT AT LATITUDE PHI	QBOG 61
CALL INTERZ(PA1,DA1,TA1,HI,PA2,DA2,TA2,HP,PA,DA,TA,H)	QBOG 62
C.....INTERPOLATES QBO P,D,T,U,V PHASE ON LATITUDE AND HEIGHT	QBOG 63
CALL PHASE(PDQ(IH,JL),PHIJ,PDQ(IH,JP),PHIP,PD1,PHA)	QBOG 64
CALL PHASE(DDQ(IH,JL),PHIJ,DDQ(IH,JP),PHIP,DD1,PHA)	QBOG 65
CALL PHASE(TDQ(IH,JL),PHIJ,TDQ(IH,JP),PHIP,TD1,PHA)	QBOG 66
CALL PHASE(PDQ(IP,JL),PHIJ,PDQ(IP,JP),PHIP,PD2,PHA)	QBOG 67
CALL PHASE(DDQ(IP,JL),PHIJ,DDQ(IP,JP),PHIP,DD2,PHA)	QBOG 68
CALL PHASE(TDQ(IP,JL),PHIJ,TDQ(IP,JP),PHIP,TD2,PHA)	QBOG 69
CALL PHASE(PD1,HI,PD2,HP,PD,H)	QBOG 70
CALL PHASE(DD1,HI,DD2,HP,DD,H)	QBOG 71
CALL PHASE(TD1,HI,TD2,HP,TD,H)	QBOG 72
CALL PHASE(UDQ(IH,JL),PHIJ,UDQ(IH,JP),PHIP,UD1,PHA)	QBOG 73
CALL PHASE(VDQ(IH,JL),PHIJ,VDQ(IH,JP),PHIP,VD1,PHA)	QBOG 74
CALL PHASE(UDQ(IP,JL),PHIJ,UDQ(IP,JP),PHIP,UD2,PHA)	QBOG 75
CALL PHASE(VDQ(IP,JL),PHIJ,VDQ(IP,JP),PHIP,VD2,PHA)	QBOG 76
CALL PHASE(UD1,HI,UD2,HP,UD,H)	QBOG 77
CALL PHASE(VD1,HI,VD2,HP,VD,H)	QBOG 78
C.....INTERPOLATES QBO WIND AMPLITUDE ON LATITUDE AT LOWER HEIGHT	QBOG 79
CALL INTERW(UAQ(IH,JL),VAQ(IH,JL),PHIJ,UAQ(IH,JP),VAQ(IH,JP),	QBOG 80
5PHIP,UA1,VA1,PHA)	QBOG 81
C.....INTERPOLATES QBO WIND AMPLITUDES ON LATITUDE AT UPPER HEIGHT	QBOG 82
CALL INTERW(UAQ(IP,JL),VAQ(IP,JL),PHIJ,UAQ(IP,JP),VAQ(IP,JP),	QBOG 83
6PHIP,UA2,VA2,PHA)	QBOG 84
C.....INTERPOLATES QBO WIND AMPLITUDES ON HEIGHT AT LATITUDE PHI	QBOG 85
CALL INTERW(UA1,VA1,HI,UA2,VA2,HP,UA,VA,H)	QBOG 86
C.....EVALUATES QBO VALUES FROM INTERPOLATED AMPLITUDES AND PHASES	QBOG 87
PQ=PA*COS(TP*(TMJD-PD))	QBOG 88
DQ=DA*COS(TP*(TMJD-DD))	QBOG 89
TQ=TA*COS(TP*(TMJD-TD))	QBOG 90
UQ=UA*COS(TP*(TMJD-UD))	QBOG 91

VQ=VA*COS(TP*(TMJD-VD))	QBOG	92
RETURN	QBOG	93
END	QBOG	94
DOUBLE PRECISION FUNCTION RANDOM(L)	RAND	1
	RAND	2
ALGORITHM AS 183 APPL. STATIST. (1982) VOL. 31, P.188	RAND	3
	RAND	4
RETURNS A PSEUDO-RANDOM NUMBER RECTANGULARLY DISTRIBUTED	RAND	5
BETWEEN 0 AND 1.	RAND	6
	RAND	7
IX, IY AND IZ SHOULD BE SET TO INTEGER VALUES BETWEEN	RAND	8
1 AND 30,000 BEFORE FIRST ENTRY.	RAND	9
	RAND	10
INTEGER ARITHMETIC UP TO 30323 IS REQUIRED.	RAND	11
	RAND	12
RETURNS L = 0 UNLESS RANDOM = 0 OR RANDOM = 1, IN WHICH	RAND	13
CASE L = 1	RAND	14
	RAND	15
DOUBLE PRECISION ONE,ZERO	RAND	16
COMMON /RAND/ IX, IY, IZ	RAND	17
DATA ONE,ZERO/1.000,0.000/	RAND	18
IX = 171 * MOD(IX, 177) - 2 * (IX / 177)	RAND	19
IY = 172 * MOD(IY, 176) - 35 * (IY / 176)	RAND	20
IZ = 170 * MOD(IZ, 178) - 63 * (IZ / 178)	RAND	21
	RAND	22
IF (IX .LT. 0) IX = IX + 30269	RAND	23
IF (IY .LT. 0) IY = IY + 30307	RAND	24
IF (IZ .LT. 0) IZ = IZ + 30323	RAND	25
	RAND	26
IF INTEGER ARITHMETIC UP TO 5,212,632 IS AVAILABLE,	RAND	27
THE PRECEDING 6 STATEMENTS MAY BE REPLACED BY	RAND	28
	RAND	29
IX = MOD(171 * IX, 30269)	RAND	30
IY = MOD(172 * IY, 30307)	RAND	31
IZ = MOD(170 * IZ, 30323)	RAND	32
	RAND	33
ON SOME MACHINES, THIS MAY SLIGHTLY INCREASE THE SPEED.	RAND	34
THE RESULTS SHOULD BE IDENTICAL.	RAND	35
	RAND	36
RANDOM =DMOD(DFLOAT(IX) /30269.000+DFLOAT(IY) /30307.000+	RAND	37
& DFLOAT(IZ) /30323.000,ONE)	RAND	38
L = 0	RAND	39
IF (RANDOM .LE. ZERO .OR. RANDOM .GE. ONE)L = 1	RAND	40
RETURN	RAND	41
END	RAND	42
SUBROUTINE RIG	RIG	1
COMMON/IOTEMP/IOTEM1,IOTEM2,IUS,DD,XMJD,PHI1,PHI,	RIG	2
NSAME,RP1, RD1, RT1, SP1, SD1, ST1, RU1, RV1, SU1, SV1,	RIG	3
\$ MN, IDA, IYR, H1, PHI1R,THET1R,G,RI,H,PHIR,THETR,F10,F10B,AP,	RIG	4
\$ IHR,MIN,NMORE,DX,HL,VL,DZ,B,EPS,IOPP,LOOK,IET,GLAT,	RIG	5
1RP1S,RD1S,RT1S,RU1S,RV1S,SP1S,SD1S,ST1S,SU1S,SV1S,	RIG	6
2UDS1,VDS1,UDL1,VDL1,UDS2,VDS2,UDL2,VDL2	RIG	7
C.....GRAVITY G AT H, LATITUDE PHIR (RADIAN)	RIG	8
C.....RADIUS RI FROM CENTER OF EARTH TO HEIGHT H	RIG	9

C.....B = POLAR EARTH RADIUS, EPS = ECCENTRICITY	RIG	10
CPHI2 = COS(PHIR) ** 2	RIG	11
C EARTH RADIUS	RIG	12
RI = B / SQRT(1. - EPS * CPHI2)	RIG	13
C C2PHI = COS(2*PHIR)	RIG	14
C2PHI = 2. * CPHI2 - 1.	RIG	15
C C4PHI = COS(4*PHIR)	RIG	16
C4PHI = 8. * CPHI2 * (CPHI2 - 1.) + 1.	RIG	17
C.....G AT SURFACE	RIG	18
G = 9.80616 * (1. - 0.0026373 * C2PHI + 0.0000059 * C2PHI * C2PHI)	RIG	19
C.....EFFECTIVE RADIUS	RIG	20
RE = 2. * G / (3.085462E-3 + C2PHI * 2.27E-6 - C4PHI * 2.E-9)	RIG	21
C G AT HEIGHT H	RIG	22
G = G / (1. + (H / RE)) ** 2	RIG	23
C RADIUS AT HEIGHT H	RIG	24
RI = RI + H	RIG	25
END	RIG	26
SUBROUTINE RTERP(H,PHI,PR,DR,TR,P,D,T)	RTER	1
C.....COMPUTES RANDOM PERTURBATION STANDARD DEVIATIONS P,D,T AT	RTER	2
C HEIGHT H (KM), LATITUDE PHI(DEGREES) FROM SIGMA ARRAYS	RTER	3
C PR,DR,AND TR	RTER	4
DIMENSION PR(29,19),DR(29,19),TR(29,19)	RTER	5
C.....I = LOWER HEIGHT INDEX	RTER	6
IF(H .LT. 120.)I=INT((H+5.)/5.)	RTER	7
IF(H .GE. 120.)I=25+INT((H-120.)/20.)	RTER	8
IF(I .LT. 1)I = 1	RTER	9
IF(I .GT. 29)I = 29	RTER	9A
IP = I+1	RTER	10
IF(IP .GT. 29)IP=29	RTER	11
C LOWER LATITUDE INDEX	RTER	12
J=INT((PHI+100.)/10.)	RTER	13
JP = J+1	RTER	14
IF(JP .GT. 19)JP=19	RTER	15
IF(I .GT. 25)GOTO 10	RTER	16
C LOWER HEIGHT FOR PR,TR,DR ARRAYS	RTER	17
Z1=5.*I-5.	RTER	18
GO TO 20	RTER	19
10 Z1=120.+20.*(I-25)	RTER	20
20 IF(IP .GT. 25)GOTO 30	RTER	21
C UPPER HEIGHT FOR PR,DR,TR ARRAYS	RTER	22
Z2=5.*IP-5.	RTER	23
GO TO 40	RTER	24
30 Z2=120.+20.*(IP-25)	RTER	25
40 PHI1=-100.+10.*J	RTER	26
PHI2=-100.+10.*JP	RTER	27
C.....INTERPOLATE ON LATITUDE AT LOWER HEIGHT	RTER	28
CALL INTERZ(PR(I,J),DR(I,J),TR(I,J),PHI1,PR(I,JP),DR(I,JP),	RTER	29
1 TR(I,JP),PHI2,P1,D1,T1,PHI)	RTER	30
C.....INTERPOLATE ON LATITUDE AT UPPER HEIGHT	RTER	31
CALL INTERZ(PR(IP,J),DR(IP,J),TR(IP,J),PHI1,PR(IP,JP),DR(IP,JP),	RTER	32
1 TR(IP,JP),PHI2,P2,D2,T2,PHI)	RTER	33
C.....INTERPOLATION ON HEIGHT USING LATITUDE INTERPOLATED VALUES	RTER	34
CALL INTERZ(P1,D1,T1,Z1,P2,D2,T2,Z2,P,D,T,H)	RTER	35
RETURN	RTER	36
END	RTER	37

SUBROUTINE RTRAN	RTRA	1
COMMON/IOTEMP/IOTEM1,IOTEM2,IUS,DUMMY(60)	RTRA	2
CHARACTER*2 I1	RTRA	3
COMMON/COTRAN/NDATA(19),I2,I3,I5,I4(10)	RTRA	4
COMMON/COTRAN1/I1	RTRA	5
C.... ENTRY POINT TO READ STATIONARY PERTURBATION DATA	RTRA	6
CHARACTER IWHERE*10	RTRA	7
IWHERE='RTRAN.'	RTRA	8
READ(IUS,10,END=3) I1,I2,I3,NDATA	RTRA	9
10 FORMAT(A2,21I5)	RTRA	10
I5 = 0	RTRA	11
RETURN	RTRA	12
ENTRY RTRAN1	RTRA	13
C.... ENTRY POINT TO READ ZONAL MEAN DATA & RANDOM PERTURBATION DATA IN	RTRA	14
C SETUP	RTRA	15
IWHERE='RTRAN1.'	RTRA	16
READ(IUS,200,END=3) I1,I2,I3,NDATA,I5	RTRA	17
200 FORMAT(A2,I4,I5,19I6,I4)	RTRA	18
RETURN	RTRA	19
ENTRY RTRAN2	RTRA	20
C.... ENTRY POINT TO READ QBO PARAMETERS AND LARGE/SMALL SCALE FRACTIONS	RTRA	21
C.... AND CORRELATIONS IN SETUP	RTRA	22
IWHERE='RTRAN2.'	RTRA	23
READ(IUS,300,END=3) I1,NDATA	RTRA	24
300 FORMAT(A2,19I7)	RTRA	25
I2=NDATA(1)	RTRA	26
I3=NDATA(2)	RTRA	27
I5=0	RTRA	28
DO 2 I = 1,10	RTRA	29
2 I4(I) = NDATA(1+I)	RTRA	30
RETURN	RTRA	31
3 WRITE(6,250) IUS,IWHERE	RTRA	32
250 FORMAT('1 PREMATURE END-OF-FILE FOUND ON UNIT ',I2/	RTRA	33
'O CALLED FROM SUBROUTINE ',A10)	RTRA	34
STOP ' RTRAN ERROR.'	RTRA	35
END	RTRA	36
SUBROUTINE SCIMOD(NPOP)	SCIM	1
C.... COMPUTES VALUES P,D,T,U,V AND SHEAR DUH,DVH FROM INPUT AND	SCIM	2
C ARRAYS IN COMMON PDTCOM. INPUT TO SCIMOD IS%	SCIM	3
C G = GRAVITY AT POSITION RI = RADIUS AT HEIGHT H	SCIM	4
C PHIR = LATITUDE (RADIAN) THETR = LONGITUDE (RADIAN)	SCIM	5
C F10 = F10.7 SOLAR FLUX F10B = MEAN F10.7 FLUX	SCIM	6
C AP = SOLAR-GEOMAGNETIC A SUB P INDEX	SCIM	7
C MN/IDA/IYR = DATA (IYR = FULL YEAR-1900)	SCIM	8
C IHR%MIN = TIME H1 = PREVIOUS HEIGHT	SCIM	9
C PHI1R = PREVIOUS LATITUDE THETR = PREVIOUS LONGITUDE	SCIM	10
C RP1,RD1,RT1 = PREVIOUS RANDOM PERTURBATIONS	SCIM	11
C SP1,SD1,ST1 = PREVIOUS RANDOM STANDARD DEVIATIONS (SIGMAS)	SCIM	12
C RU1,RV1 = PREVIOUS RANDOM WINDS	SCIM	13
C SU1,SV1 = PREVIOUS RANDOM WIND SIGMAS	SCIM	14
COMMON/IPRTP/ IPRT,NLIMIT	SCIM	15
COMMON/IOTEMP/IOTEM1,IOTEM2,IUS,DD,XMJD,PHI1,PHI,	SCIM	16
.NSAME,RP1L,RD1L,RT1L,SP1L,SD1L,ST1L,RU1L,RV1L,SU1L,SV1L,	SCIM	17
\$ MN, IDA, IYR, H1, PHI1R,THETR,G,RI,H,PHIR,THETR,F10,F10B,AP.	SCIM	18

	. IHR,MIN,NMORE,DX,HL,VL,DZ,B,EPS,IOPP,LOOK,IET,FLAT,	SCIM 19
	1RP1S,RD1S,RT1S,RU1S,RV1S,SP1S,SD1S,ST1S,SU1S,SV1S,	SCIM 20
	2UDS1,VDS1,UDL1,VDL1,UDS2,VDS2,UDL2,VDL2	SCIM 21
	COMMON /PDTCDM/IU4,MONTH,IOPR,	SCIM 22
	. PSP(15,19,18),DSP(15,19,18),TSP(15,19,18),USP(15,19,18),	SCIM 23
	. VSP(15,19,18),	SCIM 24
	. PG(21,19),DG(21,19),TG(21,19),UG(21,19),	SCIM 25
	. PAQ(17,5),DAQ(17,5),TAQ(17,5),UAQ(17,5),VAQ(17,5),	SCIM 26
	. PDQ(17,5),DDQ(17,5),TDQ(17,5),UDQ(17,5),VDQ(17,5),	SCIM 27
	. PR(29,19),DR(29,19),TR(29,19),UR(29,19),VR(29,19)	SCIM 28
	. PQ,DQ,TQ,UQ,VQ,PQA,DQA,TQA,UA,VA,IOPQ,	SCIM 29
	1PLP(25,10),DLP(25,10),TLP(25,10),	SCIM 30
	2ULP(25,10),VLP(25,10),UDL(25,10),	SCIM 31
	3VDL(25,10),UDS(25,10),VDS(25,10)	SCIM 32
	COMMON /C4/ GLAT(16),GLON(16),NG,P4D(16,26),D4D(16,26),T4D(16,26),	SCIM 33
	. SP4(16,26),SD4(16,26),ST4(16,26),THET1,THET,DUMMY	SCIM 34
	COMMON/COMPER/SPH,SDH,STH,PRH,DRH,TRH,URH,VRH,SUH,SVH,CP,	SCIM 35
	1PRHS,DRHS,TRHS,URHS,VRHS,PRHL,DRHL,TRHL,URHL,VRHL,	SCIM 36
	2SPHS,SDHS,STHS,SUHS,SVHS,SPHL,SDHL,STHL,SUHL,SVHL	SCIM 37
	COMMON/WINCOM/DH,FCORY,DX5,DY5,DPX,DPY,UGH,VGH,	SCIM 38
	\$ TH,DTX,DTY,DUH,DVH,PH,UPRE,VPRE,DUPRE,DVPRE	SCIM 39
	COMMON/CHK/PCK(4,4,3),DCK(4,4,3),NO(2)	SCIM 40
	COMMON /CHIC/LA(4,4),NB(2),IWSYM,USH,VSH,DUSH,DVSH	SCIM 41
	COMMON /VERT/RW1,SW1,WRH,SWH,WR(29)	SCIM 42
C	FACTOR FOR RADIAN TO DEGREES	SCIM 43
	FAC = 57.2957795	SCIM 44
	IWSYM=ICHAR(' ')	SCIM 45
	IF(NPOP.NE.O) GO TO 6	SCIM 46
	UPRE=O.	SCIM 47
	VPRE=O.	SCIM 48
	DUPRE=O.	SCIM 49
	DVPRE=O.	SCIM 50
6	PQ=O.	SCIM 51
	DQ=O.	SCIM 52
	TQ=O.	SCIM 53
	PRH=O.	SCIM 54
	DRH=O.	SCIM 55
	TRH=O.	SCIM 56
	URH=O.	SCIM 57
	VRH=O.	SCIM 58
	WRH = O.	SCIM 59
	UQ=O.	SCIM 60
	VQ=O.	SCIM 61
	PQA=O.	SCIM 62
	DQA=O.	SCIM 63
	TQA=O.	SCIM 64
	UA=O.	SCIM 65
	VA=O.	SCIM 66
	PSH=O.	SCIM 67
	DSH=O.	SCIM 68
	TSH=O.	SCIM 69
	SPU = O.	SCIM 70
	SPV = O.	SCIM 71
	MONTH=MN	SCIM 72

C	PRESENT LATITUDE, DEG	SCIM 73
	PHI = PHIR*FAC	SCIM 74
C	PRESENT LONGITUDE, DEG	SCIM 75
	THET = THETR*FAC	SCIM 76
C	PREVIOUS LATITUDE, DEG	SCIM 77
	PHI1 = PHIR*FAC	SCIM 78
C	PREVIOUS LONGITUDE, DEG	SCIM 79
	THET1 = THETR*FAC	SCIM 80
C.....	FCORY = NORTH COMPONENT CORIOLIS FACTOR TIMES DISTANCE FOR	SCIM 81
C	5 DEGREES OF LATITUDE	SCIM 82
	DY5 = 5000.*RI/FAC	SCIM 83
	DX5 = DY5*COS(PHIR)	SCIM 84
	FCORY = DY5*SIN(PHIR)/(120.*FAC)	SCIM 85
C.....	IN JACCHIA OR MIXED ZONAL MEAN-JACCHIA HEIGHT RANGE	SCIM 86
	8 IF (H.GT.90.0) GO TO 10	SCIM 87
C.....	IN 4-D DATA HEIGHT RANGE	SCIM 88
	IF (H.LE.25.0) GO TO 500	SCIM 89
C.....	IN ZONAL MEAN OR MIXED ZONAL MEAN 4D HEIGHT RANGE	SCIM 90
	GO TO 200	SCIM 91
C.....	IN MIXED JACCHIA-ZONAL MEAN RANGE, NEED TO FAIR DATA	SCIM 92
	10 IF (H.LT.120.) GO TO 20	SCIM 93
C.....	FOLLOWING IS THE PURE JACCHIA HEIGHT RANGE SECTION	SCIM 94
C.....	JACCHIA VALUES AT CURRENT POSITION	SCIM 95
	CALL JACCH(H,PHIR,THET,PH,DH,TH)	SCIM 96
	PHIN = PHIR + 5. / FAC	SCIM 97
	THETE = THET - 5.	SCIM 98
C.....	JACCHIA VALUES AT CURRENT POSITION+5 DEGREES LAT, FOR DP/DY AND	SCIM 99
C	DT/DY	SCIM 100
	CALL JACCH(H,PHIN,THETE,PHN,DHN,THN)	SCIM 101
C.....	JACCHIA VALUES AT CURRENT POSITION-5 DEGREES LON, FOR DP/DX AND	SCIM 102
C	DT/DX	SCIM 103
	CALL JACCH(H,PHIR,THETE,PHE,DHE,THE)	SCIM 104
C	DP/DY FOR GEOSTROPHIC WIND	SCIM 105
	DPY=PHN-PH	SCIM 106
C	DP/DX FOR GEOSTROPHIC WIND	SCIM 107
	DPX=PHE-PH	SCIM 108
C	DT/DX FOR THERMAL WIND SHEAR	SCIM 109
	DTX = THE - TH	SCIM 110
C	DT/DY FOR THERMAL WIND SHEAR	SCIM 111
	DTY = THN - TH	SCIM 112
C	CHANGE NOTATION FOR OUTPUT	SCIM 113
	PGH=PH	SCIM 114
	DGH=DH	SCIM 115
	TGH=TH	SCIM 116
	CALL WIND	SCIM 117
	UH = UGH	SCIM 118
	VH = VGH	SCIM 119
	HB = H + 5.	SCIM 120
	CP = 7.*PH/(2.*DH*TH)	SCIM 121
	CALL JACCH(HB,PHIR,THET,PB,DB,TB)	SCIM 122
	DTZ = (TB - TH)/5000.	SCIM 123
C.....	VERTICAL MEAN WIND	SCIM 124
	WGH = -CP*(UH*DTX/DX5 + VH*DTY/DY5)/(G + CP*DTZ + UH*DUH+VH*DVH)	SCIM 125
C	GO TO RANDOM PERTURBATIONS SECTION	SCIM 126

GO TO 800	SCIM 127
C.... FOLLOWING IS THE MIXED JACCHIA-ZONAL MEAN HEIGHT RANGE SECTION	SCIM 128
C LOWER HEIGHT INDEX	SCIM 129
20 IHA = 5*(INT(H)/5)	SCIM 130
C UPPER HEIGHT INDEX	SCIM 131
IHB = IHA + 5	SCIM 132
C LOWER HEIGHT FOR INTERPOLATION	SCIM 133
HA = IHA*1.	SCIM 134
C UPPER HEIGHT FOR INTERPOLATION	SCIM 135
HB = IHB*1.	SCIM 136
C.... JACCHIA VALUES AT LOWER HEIGHT, CURRENT LAT-LON	SCIM 137
CALL JACCH(HA,PHIR,THET,PJA,DJA,TJA)	SCIM 138
PHIN = PHIR + 5. / FAC	SCIM 139
THETE = THET - 5.	SCIM 140
C.... JACCHIA VALUES AT LOWER HEIGHT, CURRENT LON-LAT+5 DEGREES	SCIM 141
C LAT, FOR DP/DY AND DT/DY	SCIM 142
CALL JACCH(HA,PHIN,THET,PJN,DJN,TJN)	SCIM 143
C.... JACCHIA VALUES AT LOWER HEIGHT, CURRENT LAT-LON-5 DEGREES	SCIM 144
C LON, FOR DP/DX, AND DT/DX	SCIM 145
CALL JACCH(HA,PHIR,THETE,PJE,DJE,TJE)	SCIM 146
C JACCHIA DP/DY AT LOWER HEIGHT	SCIM 147
DPXJA=PJE-PJA	SCIM 148
C JACCHIA DP/DY AT LOWER HEIGHT	SCIM 149
DPYJA=PJN-PJA	SCIM 150
C JACCHIA DT/DX AT LOWER HEIGHT	SCIM 151
DTXJA = TJE - TJA	SCIM 152
C JACCHIA DT/DY AT LOWER HEIGHT	SCIM 153
DTYJA = TJN - TJA	SCIM 154
C.... JACCHIA VALUES AT UPPER HEIGHT, CURRENT LAT-LON	SCIM 155
CALL JACCH(HB,PHIR,THET,PJB,DJB,TJB)	SCIM 156
PHIN = PHIR + 5. / FAC	SCIM 157
THETE=THET-5.	SCIM 158
C.... JACCHIA VALUES AT UPPER HEIGHT, CURRENT LON-LAT+5 DEGREES	SCIM 159
C LAT, FOR DP/DY AND DT/DY	SCIM 160
CALL JACCH(HB,PHIN,THET,PJN,DJN,TJN)	SCIM 161
C.... JACCHIA VALUES AT UPPER HEIGHT, CURRENT LAT-LON-5 DEGREES	SCIM 162
C LON, FOR DP/DX AND DT/DX	SCIM 163
CALL JACCH(HB,PHIR,THETE,PJE,DJE,TJE)	SCIM 164
C JACCHIA DP/DX FOR GEOSTROPHIC WINDS	SCIM 165
DPXJB = PJE - PJB	SCIM 166
C JACCHIA DP/DY FOR GEOSTROPHIC WINDS	SCIM 167
DPYJB = PJN - PJB	SCIM 168
C JACCHIA DT/DX FOR THERMAL WIND SHEAR	SCIM 169
DTXJB = TJE - TJB	SCIM 170
C JACCHIA DT/DY FOR THERMAL WIND SHEAR	SCIM 171
DTYJB = TJN - TJB	SCIM 172
C.... ZONAL MEAN AT LOWER HEIGHT, TO BE FAIRED WITH JACCHIA	SCIM 173
CALL GTERP(IHA,PHI,PGA,DGA,TGA,PG,DG,TG,DPYGA,DTYGA,UGA,UG)	SCIM 174
C.... ZONAL MEAN AT UPPER HEIGHT, TO BE FAIRED WITH JACCHIA	SCIM 175
CALL GTERP(IHB,PHI,PGB,DGB,TGB,PG,DG,TG,DPYGB,DTYGB,UGB,UG)	SCIM 176
C.... FAIRED RESULTS AT LOWER HEIGHT	SCIM 177
IHSB = 90	SCIM 178
CALL PDTUV(PSP,DSP,TSP,USP,VSP,PHI,THET,IHSB,PSH,DSH,TSH,	SCIM 179
& DPXSB,DPYSB,DTXSB,DTYSB,SPU,SPV)	SCIM 180

PGA = PGA*(1. + PSH)	SCIM 181
DGA = DGA*(1. + DSH)	SCIM 182
TGA = TGA*(1. + TSH)	SCIM 183
PGB = PGB*(1. + PSH)	SCIM 184
DGB = DGB*(1. + DSH)	SCIM 185
TGB = TGB*(1. + TSH)	SCIM 186
UGA=UGA+SPU	SCIM 187
VGA=SPV	SCIM 188
UGB=UGB+SPU	SCIM 189
VGB=SPV	SCIM 190
DTXGA = DTXSB * TGA	SCIM 191
DTXGB = DTXSB * TGB	SCIM 192
DTYGA = TGA*DTYSB + DTYGA*(1. + TSH + DTYSB)	SCIM 193
DTYGB = TGB*DTYSB + DTYGB*(1. + TSH + DTYSB)	SCIM 194
DPXGA = DPXSB * PGA	SCIM 195
DPXGB = DPXSB * PGB	SCIM 196
DPYGA = PGA*DPYSB + DPYGA*(1. + PSH + DPYSB)	SCIM 197
DPYGB = PGB*DPYSB + DPYGB*(1. + PSH + DPYSB)	SCIM 198
CALL FAIR(PGA,DGA,TGA,PJA,DJA,TJA,IHA,P1,D1,T1,DPXGA,DPYGA,	SCIM 199
& DPXJA,DPYJA,DPXA,DPYA,DTXGA,DTYGA,DTXJA,DTYJA,DTXA,DTYA)	SCIM 200
C.....FAIRED RESULTS AT UPPER HEIGHT	SCIM 201
CALL FAIR(PGB,DGB,TGB,PJB,DJB,TJB,IHB,P2,D2,T2,DPXGB,DPYGB,	SCIM 202
& DPXJB,DPYJB,DPXB,DPYB,DTXGB,DTYGB,DTXJB,DTYJB,DTXB,DTYB)	SCIM 203
C.....HEIGHT INTERPOLATION ON FAIRED P,D,T	SCIM 204
CALL INTER2(P1,D1,T1,HA,P2,D2,T2,HB,PH,DH,TH,H)	SCIM 205
C.....HEIGHT INTERPOLATION ON FAIRED DP/DX,DP/DY	SCIM 206
CALL INTERW(DPXJA,DPYJA,HA,DPXJB,DPYJB,HB,DPX,DPY,H)	SCIM 207
C.....HEIGHT INTERPOLATION ON FAIRED DT/DX,DT/DY	SCIM 208
CALL INTERW(DTXJA,DTYJA,HA,DTXJB,DTYJB,HB,DTX,DTY,H)	SCIM 209
C.....HEIGHT INTERPOLATION OF WIND	SCIM 210
CALL INTERW(UGA,VGA,HA,UGB,VGB,HB,USH,VSH,H)	SCIM 211
DUSH=(UGB-UGA)/5000.	SCIM 212
DVSH=(VGB-VGA)/5000.	SCIM 213
C CHANGE OF VARIABLES FOR OUTPUT	SCIM 214
PGH=PH	SCIM 215
DGH=DH	SCIM 216
TGH=TH	SCIM 217
CALL WIND	SCIM 218
UH=UGH	SCIM 219
VH=VGH	SCIM 220
CP = 7.*PH/(2.*DH*TH)	SCIM 221
DTZ = (T2 - T1)/5000.	SCIM 222
C.....VERTICAL MEAN WIND	SCIM 223
WGH = -CP*(UH*DTX/DX5 + VH*DTY/DY5)/(G + CP*DTZ + UH*DUH + VH*DVH)	SCIM 224
C GO TO RANDOM PERTURBATIONS SECTION	SCIM 225
GO TO 800	SCIM 226
C.....THE FOLLOWING SECTION IS FOR ZONAL MEAN OR MIXED ZONAL MEAN 4D	SCIM 227
C HEIGHTS	SCIM 228
C UPPER HEIGHT INDEX	SCIM 229
200 IHGB = 5*(INT(H)/5) + 5	SCIM 230
C UPPER HEIGHT	SCIM 231
HGB = IHGB*1.	SCIM 232
C.....ZONAL MEAN AT UPPER HEIGHT	SCIM 233
CALL GTERP(IHGB,PHI,PGB,DGB,TGB,PG,DG,TG,DPYGB,DTYGB,UGB,UG)	SCIM 234

IHSB = 5*(INT(H)/5) + 5	SCIM 235
IF (IHSB .GT. 90)IHSB = 90	SCIM 236
C UPPER STATIONARY PERTURBATION HEIGHT	SCIM 237
230 HSB = IHSB*1.	SCIM 238
C.....STATIONARY PERTURBATIONS AT UPPER HEIGHT	SCIM 239
CALL PDTUV(PSP,DSP,TSP,USP,VSP,PHI,THET,IHSB,PSB,DSB,TSB,	SCIM 240
\$ DPXSB,DPYSB, DTXSB,DTYSB,USB,VSB)	SCIM 241
C LOWER HEIGHT INDEX	SCIM 242
IHGA = IHGB - 5	SCIM 243
C LOWER HEIGHT INDEX	SCIM 244
HGA = IHGA*1.	SCIM 245
C..... ZONAL MEAN AT LOWER HEIGHT	SCIM 246
CALL GTERP(IHGA,PHI,PGA,DGA,TGA,PG,DG,TG,DPYGA,DTYGA,UGA,UG)	SCIM 247
IHSA=IHSB - 5	SCIM 248
C LOWER STATIONARY PERTURBATION HEIGHT	SCIM 249
250 HSA = IHSA*1.	SCIM 250
C.....STATIONARY PERTURBATIONS AT LOWER HEIGHT	SCIM 251
CALL PDTUV(PSP,DSP,TSP,USP,VSP,PHI,THET,IHSA,PSA,DSA,TSA,	SCIM 252
\$ DPXSA,DPYSA, DTXSA,DTYSA,USA,VSA)	SCIM 253
CALL INTERW(UGA,O.,HGA,UGB,O.,HGB,UGH,VGH,H)	SCIM 254
CALL INTERW(USA,VSA,HSA,USB,VSB,HSB,SPU,SPV,H)	SCIM 255
USH=UGH+SPU	SCIM 256
VSH=SPV	SCIM 257
DUSH=((UGB-UGA)/((HGB-HGA)+(USB-USA)/(HSB-HSA))*.001	SCIM 258
DVSH=.001*(VSB-VSA)/(HSB-HSA)	SCIM 259
C FOR MIXED ZONAL MEAN - 4D SECTION	SCIM 260
IF(H.LT.30.0) GO TO 300	SCIM 261
C..... ZONAL MEAN VALUES HEIGHT INTERPOLATIONS	SCIM 262
CALL INTER2(PGA,DGA,TGA,HGA,PGB,DGB,TGB,HGB,PGH,DGH,TGH,H)	SCIM 263
C.....STATIONARY PERTURBATION HEIGHT INTERPOLATION	SCIM 264
CALL INTERZ(PSA,DSA,TSA,HSA,PSB,DSB,TSB,HSB,PSH,DSH,TSH,H)	SCIM 265
C QUASI-BIENNIAL VALUES	SCIM 266
CALL QBOGEN	SCIM 267
C..... HEIGHT INTERPOLATION OF ZONAL MEAN DP/DY AND DT/DY	SCIM 268
CALL INTERW(DPYGA,DTYGA,HGA,DPYGB,DTYGB,HGB,DPYG,	SCIM 269
\$ DTYG,H)	SCIM 270
C.....HEIGHT INTERPOLATION OF STATIONARY PERTURBATION DP/DX AND DP/DY	SCIM 271
CALL INTERW(DPXSA,DPYSA,HSA,DPXSB,DPYSB,HSB,DPXS,DPYS,H)	SCIM 272
C.....HEIGHT INTERPOLATION OF STATIONARY PERTURBATION DT/DX AND DT/DY	SCIM 273
CALL INTERW(DTXSA,DTYSA,HSA,DTXSB,DTYSB,HSB,DTXS,DTYS,H)	SCIM 274
C.....UNPERTURBED (MONTHLY MEAN) VALUES FOR OUTPUT	SCIM 275
TGH = TGH * (1. + TSH)	SCIM 276
PGH = PGH * (1. + PSH)	SCIM 277
DGH = DGH * (1. + DSH)	SCIM 278
C TOTAL DT/DX	SCIM 279
DTX = DTXS + TGH	SCIM 280
C TOTAL DT/DY	SCIM 281
DTY = TGH*DTYS + DTYG*(1. + TSH + DTYS)	SCIM 282
C TOTAL DP/DX	SCIM 283
DPX = DPXS + PGH	SCIM 284
C TOTAL DP/DY	SCIM 285
DPY = PGH*DPYS + DPYG*(1. + PSH + DPYS)	SCIM 286
C.....UNPERTURBED VALUES PLUS QBO PERTURBATIONS	SCIM 287
PH = (1. + PQ) * PGH	SCIM 288

DH = DGH * (1. + DQ)	SCIM 289
TH = (1. + TQ) * TGH	SCIM 290
CALL WIND	SCIM 291
C..... GEOSTROPHIC WIND PLUS QBO WIND PERTURBATIONS	SCIM 292
UH=UGH+UQ	SCIM 293
VH=VGH+VQ	SCIM 294
CP = 7.*PGH/(2.*DGH*TGH)	SCIM 295
DTZ = (TGB*(1.+TSB) - TGA*(1.+TSA))/5000.	SCIM 296
C..... VERTICAL MEAN WIND	SCIM 297
WGH=-CP*(UGH*DTX/DX5+VGH*DTY/DY5)/(G+CP*DTZ+VGH*DUH+VGH*DVH)	SCIM 298
C GO TO RANDOM PERTURBATIONS SECTION	SCIM 299
GO TO 800	SCIM 300
C..... THE FOLLOWING IS THE MIXED ZONAL MEAN-4D SECTION	SCIM 301
C..... GENERATE GRID OF 4D PROFILES IF PREVIOUS HEIGHT GE 30	SCIM 302
300 IF (LOOK.EQ. 1)CALL GEN4D	SCIM 303
IHCK = 24	SCIM 304
DO 310 KND = 1,3	SCIM 305
IKND = IHCK + KND	SCIM 306
IF (IKND.GT.26)IKND=26	SCIM 307
DO 310 IND = 1,4	SCIM 308
DO 310 JND = 1,4	SCIM 309
PCK(IND,JND,KND) = P4D(4*(IND-1)+JND,IKND)	SCIM 310
DCK(IND,JND,KND) = D4D(4*(IND-1)+JND,IKND)	SCIM 311
310 CONTINUE	SCIM 312
C..... LAT-LON INTERPOLATION OF 4D DATA AT 25 KM	SCIM 313
CALL INTER4(PHI,THET,25, P4D,D4D,T4D,P4A,D4A,T4A,	SCIM 314
\$ DPX4,DPY4,DTX4,DTY4)	SCIM 315
C..... ZONAL MEAN PLUS STATIONARY PERTURBATIONS	SCIM 316
PB = PGB*(1. + PSB)	SCIM 317
C P,D,T	SCIM 318
DB = DGB*(1. + DSB)	SCIM 319
TB = TGB*(1. + TSB)	SCIM 320
DPXB = PGB*DPXSB	SCIM 321
DPYB = PGB*DPYSB + DPYGB*(1. + PSB + DPYSB)	SCIM 322
DTXB = TGB*DTXSB	SCIM 323
DTYB = TGB*DTYSB + DTYGB*(1. + TSB + DTYSB)	SCIM 324
C..... HEIGHT INTERPOLATION BETWEEN 4D AT 25 AND ZONAL MEAN AT UPPER	SCIM 325
C HEIGHT DP/DX AND DP/DY	SCIM 326
CALL INTERW(DPX4,DPY4,25.,DPXB,DPYB,HSB,DPX,DPY,H)	SCIM 327
C..... HEIGHT INTERPOLATION BETWEEN 4D AT 25 AND ZONAL MEAN AT UPPER	SCIM 328
C HEIGHT P,D,T	SCIM 329
CALL INTER2(P4A,D4A,T4A,25.,PB,DB,TB,HGB,PGH,DGH,TGH,H)	SCIM 330
C..... HEIGHT INTERPOLATION BETWEEN 4D AT 25 AND ZONAL MEAN AT UPPER	SCIM 331
C HEIGHT DT/DX AND DT/DY	SCIM 332
CALL INTERW(DTX4,DTY4,25.,DTXB,DTYB,HSB,DTX,DTY,H)	SCIM 333
IF (IOPQ.EQ.2) GO TO 350	SCIM 334
C QUASI BIENNIAL PERTURBATIONS	SCIM 335
CALL QBOGEN	SCIM 336
C ADD QBO PERTURBATIONS TO P,D,T	SCIM 337
350 PH=PGH*(1.+PQ)	SCIM 338
DH=DGH*(1.+DQ)	SCIM 339
TH=TGH*(1.+TQ)	SCIM 340
CALL WIND	SCIM 341
C ADD QBO WIND PERTURBATIONS	SCIM 342

UH=UGH+UQ	SCIM 343
VH=VGH+VQ	SCIM 344
CP = 7.*PGH/(2.*DGH*TGH)	SCIM 345
DTZ = (TB - T4A)/(1000.*(HGB - 25.))	SCIM 346
C.....VERTICAL MEAN WIND	SCIM 347
WGH=-CP*(UGH*DTX/DX5+VGH*DTY/DY5)/((G+CP*DTZ+UGH*DUH+VGH*DVH)	SCIM 348
C GO TO RANDOM PERTURBATIONS SECTION	SCIM 349
2000 FORMAT(' 4-D DATA AFTER ADJUSTMENTS'/' LATITUDE'/3X,16F8.3)	SCIM 350
2001 FORMAT(' LONGITUDE'/3X,16F8.3)	SCIM 351
2007 FORMAT(' PRESSURE')	SCIM 352
2002 FORMAT(1X,12,16F8.0)	SCIM 353
2003 FORMAT(' DENSITY')	SCIM 354
2005 FORMAT(' TEMPERATURE')	SCIM 355
2004 FORMAT(1X,12,16F8.5)	SCIM 356
2006 FORMAT(1X,12,16F8.2)	SCIM 357
GO TO 800	SCIM 358
500 IF (H.GE.O.O) GO TO 510	SCIM 359
IF (H.LT.-O.O15) GO TO 505	SCIM 360
C IF -15 METER LE H LT O , H IS SET TO O	SCIM 361
H = O.	SCIM 362
GO TO 510	SCIM 363
C NO MORE COMPUTATIONS TO BE MADE IF HEIGHT LT -5 M	SCIM 364
505 NMORE = O	SCIM 365
RETURN	SCIM 366
C.....GENERATE GRID OF 4D PROFILES IF PREVIOUS HEIGHT GE 30	SCIM 367
510 IF (LOOK.EQ.1)CALL GEN4D	SCIM 368
C LOWER HEIGHT INDEX	SCIM 369
IHA=INT(H)	SCIM 370
C LOWER HEIGHT INDEX	SCIM 371
HA = IHA*1.	SCIM 372
IWSX = IWSYM	SCIM 373
IHCK=IHA-1	SCIM 374
DO 511 KND=1,3	SCIM 375
IKND = IHCK + KND	SCIM 376
IF (IKND.LT.1)IKND = 1	SCIM 377
IF (IKND.GT.26)IKND = 26	SCIM 378
DO 511 IND=1,4	SCIM 379
DO 511 JND = 1,4	SCIM 380
PCK(IND,JND,KND)=P4D(4*(IND-1)+JND,IKND)	SCIM 381
DCK(IND,JND,KND)=D4D(4*(IND-1)+JND,IKND)	SCIM 382
511 CONTINUE	SCIM 383
C UPPER HEIGHT INDEX	SCIM 384
IHB = IHA + 1	SCIM 385
IF(IHB.LE.25) GO TO 513	SCIM 386
IHA=24	SCIM 387
HA=24.	SCIM 388
IHB=25	SCIM 389
C UPPER HEIGHT	SCIM 390
513 HB = IHB*1.	SCIM 391
C.....LAT-LON INTERPOLATION OF 4D VALUES AT UPPER HEIGHT	SCIM 392
515 CALL INTER4(PHI,THET,IHB, P4D,D4D,T4D,PB,DB,TB,	SCIM 393
\$ DPX4B,DPY4B,DTX4B,DTY4B)	SCIM 394
IF(IHA.EQ.O.AND.PB*DB*TB.LE.O.)GO TO 520	SCIM 395
GO TO 540	SCIM 396

520	IHB=IHB+1	SCIM 397
C.....	LOOP TO FIND LOWEST VALID HEIGHT	SCIM 398
	HB=HB+1.	SCIM 399
	GO TO 515	SCIM 400
540	IF(IHA.GT.O)CALL INTER4(PHI,THET,IHA, P4D,D4D,T4D,	SCIM 401
	\$ PA,DA,TA,DPX4A,DPY4A,DTX4A,DTY4A)	SCIM 402
	IF(IWSYM.EQ.ICHR('')) IWSX=IWSYM	SCIM 403
	IF(IHA.EQ.O.OR.(PA*DA*TA.LE.O.AND.IHA.LT.10.AND.PB*DB*TB.GT.O.))	SCIM 404
	1GO TO 550	SCIM 405
	GO TO 600	SCIM 406
C.....	LAT-LON INTERPOLATION OF 4D VALUES AT LOWER HEIGHT	SCIM 407
550	CALL INTER4(PHI,THET,O, P4D,D4D,T4D,	SCIM 408
	\$ PA,DA,TA,DPX4A,DPY4A,DTX4A,DTY4A)	SCIM 409
	IF(IWSYM.EQ.ICHR('')) IWSX=IWSYM	SCIM 410
	IF(TA-TB)560,570,560	SCIM 411
56Q	IF(TA*TB.LE.O.O) GO TO 570	SCIM 412
	TZ = (TA-TB) / ALOG(TA/TB)	SCIM 413
	GO TO 575	SCIM 414
570	TZ=TA	SCIM 415
C...	COMPUTES HEIGHT OF SURFACE	SCIM 416
575	HA = HB	SCIM 417
	IF(PB*PA.LE.O.O)GO TO 576	SCIM 418
	HA = HB + 0.28705*TZ*ALOG(PB/PA)/G	SCIM 419
576	IF(H.GT.HA - 0.04)GO TO 600	SCIM 420
	PH=O.	SCIM 421
	DH=O.	SCIM 422
	TH=O.	SCIM 423
	PGH=O.	SCIM 424
	DGH=O.	SCIM 425
	TGH=O.	SCIM 426
	GO TO 800	SCIM 427
C.....	HEIGHT INTERPOLATION OF P,D,T	SCIM 428
600	CALL INTER2(PA,DA,TA,HA,PB,DB,TB,HB,PGH,DGH,TGH,H)	SCIM 429
C.....	HEIGHT INTERPOLATION OF DP/DX AND DP/DY	SCIM 430
	CALL INTERW(DPX4A,DPY4A,HA,DPX4B,DPY4B,HB,DPX,DPY,H)	SCIM 431
C.....	HEIGHT INTERPOLATION OF DT/DX AND DT/DY	SCIM 432
	CALL INTERW(DTX4A,DTY4A,HA,DTX4B,DTY4B,HB,DTX,DTY,H)	SCIM 433
C	CHANGE OF NOTATION FOR OUTPUT	SCIM 434
	PH = PGH	SCIM 435
	DH = DGH	SCIM 436
	TH = TGH	SCIM 437
	IF(PH*DH*TH.LE.O.) GO TO 800	SCIM 438
	CALL WIND	SCIM 439
C	CHANGE OF NOTATION FOR OUTPUT	SCIM 440
	UH = UGH	SCIM 441
	VH = VGH	SCIM 442
	CP = 7.*PGH/(2.*DGH*TGH)	SCIM 443
	DTZ = (TB - TA)/(1000.*(HB - HA))	SCIM 444
C.....	VERTICAL MEAN WIND	SCIM 445
	WGH = -CP*(UGH*DTX/DX5 + VGH*DTY/DY5)/(G+CP*DTZ+UH*DUH+VH*DVH)	SCIM 446
C	QBO=O IF H LT 10	SCIM 447
	IF (H.LT.10.) GO TO 800	SCIM 448
	IF (IOPQ.EQ.2) GO TO 650	SCIM 449
C	COMPUTES QUASI BIENNIAL PERTURBATIONS	SCIM 450

CALL QBOGEN	SCIM 451
C ADDS QBO PERTURBATIONS TO P,D,T	SCIM 452
650 PH=PGH*(1.+PQ)	SCIM 453
DH=DGH*(1.+DQ)	SCIM 454
TH=TGH*(1.+TQ)	SCIM 455
C ADDS QBO WIND PERTURBATIONS TO U,V	SCIM 456
UH=UGH+UQ	SCIM 457
VH=VGH+VQ	SCIM 458
C.....THE FOLLOWING IS THE RANDOM PERTURBATIONS SECTION	SCIM 459
C.....NO RANDOM PERTURBATIONS IF IOPR GT 1	SCIM 460
800 CONTINUE	SCIM 461
IF(H .GE. 30.)GOTO 512	SCIM 462
IF(IPRT.NE.0)GOTO 512	SCIM 463
WRITE(6,2000) (GLAT(I),I=1,NG)	SCIM 464
WRITE(6,2001) (GLON(I),I=1,NG)	SCIM 465
WRITE(6,2007)	SCIM 466
DO 504 I=1,26	SCIM 467
IH=I-1	SCIM 468
WRITE(6,2004)IH,(SP4(J,I),J=1,NG)	SCIM 469
WRITE(6,2002) IH,(P4D(J,I),J=1,NG)	SCIM 470
504 CONTINUE	SCIM 471
WRITE(6,2003)	SCIM 472
DO 507 I = 1,26	SCIM 473
IH = I - 1	SCIM 474
WRITE(6,2004)IH,(SD4(J,I),J=1,NG)	SCIM 475
507 WRITE(6,2004)IH,(D4D(J,I),J=1,NG)	SCIM 476
WRITE(6,2005)	SCIM 477
DO 506 I = 1,26	SCIM 478
IH = I - 1	SCIM 479
WRITE(6,2004)IH,(ST4(J,I),J=1,NG)	SCIM 480
506 WRITE(6,2006)IH,(T4D(J,I),J=1,NG)	SCIM 481
IPRT=IPRT+1	SCIM 482
512 CONTINUE	SCIM 483
IF(NPOP.EQ.0)GO TO 840	SCIM 484
IF (IOPR.GT.1) GO TO 830	SCIM 485
C.....INTERPOLATES RANDOM WIND MAGNITUDES TO HEIGHT H, LATITUDE PHI	SCIM 486
CALL INTRUV(UR,VR,H,PHI,SUH,SVH)	SCIM 487
CALL INTR25(PLP,DLP,H,PHI,PLPH,DLPH)	SCIM 488
CALL INTR25(TLP,DLP,H,PHI,TLPH,DLPH)	SCIM 489
CALL INTR25(ULP,VLP,H,PHI,ULPH,VLPH)	SCIM 490
CALL INTR25(UDL,VDL,H,PHI,UDL2,VDL2)	SCIM 491
CALL INTR25(UDS,VDS,H,PHI,UDS2,VDS2)	SCIM 492
CALL INTRW(WR,H,SWH)	SCIM 493
SUHL=SQRT(ULPH*ABS(SUH))	SCIM 494
SUHS=SQRT((1.-ULPH)*ABS(SUH))	SCIM 495
SVHL=SQRT(VLPH*ABS(SVH))	SCIM 496
SVHS=SQRT((1.-VLPH)*ABS(SVH))	SCIM 497
SUH = SQRT(ABS(SUH))	SCIM 498
SVH = SQRT(ABS(SVH))	SCIM 499
IF(H.GE.25.)GOTO 805	SCIM 500
C..... IF H LE 20 USE 4D DATA RANDOM P,D,T SIGMAS	SCIM 501
IF(H.LE.20.)GOTO 810	SCIM 502
C.....INTERPOLATE PR,DR,TR ARRAYS TO GET P,D,T SIGMAS AT HEIGHT H,	SCIM 503
C LATITUDE PHI	SCIM 504

CALL RTERP(25.,PHI,PR,DR,TR,SPHG,SDHG,STHG)	SCIM 505
GO TO 810	SCIM 506
805 CONTINUE	SCIM 507
CALL RTERP(H,PHI,PR,DR,TR,SPH,SDH,STH)	SCIM 508
GO TO 820	SCIM 509
C.....LAT-LON INTERPOLATION ON P,D,T SIGMAS AT LOWER HEIGHT	SCIM 510
810 CALL INTER4(PHI,THET,IHA, SP4,SD4,ST4,PA,DA,TA,	SCIM 511
\$ DPX,DPY,DTX,DTY)	SCIM 512
C..... LAT-LON INTERPOLATION ON P,D,T SIGMAS AT UPPER HEIGHT	SCIM 513
CALL INTER4(PHI,THET,IHB, SP4,SD4,ST4,PB,DB,TB,	SCIM 514
\$ DPX,DPY,DTX,DTY)	SCIM 515
C.....HEIGHT INTERPOLATION OF SIGMAS	SCIM 516
CALL INTERZ(PA,DA,TA, HA,PB,DB,TB, HB,SPH,SDH,STH,H)	SCIM 517
IF(PH.LE.O.O.OR.DH.LE.O.O.OR.TH.LE.O.O)GO TO 825	SCIM 518
IF(H.LE.20.)GOTO 820	SCIM 519
FH = 1. - 0.2*(25. - H)	SCIM 520
SPH = FH*SPHG + (1. - FH)*SPH	SCIM 521
SDH = FH*SDHG + (1. - FH)*SDH	SCIM 522
STH = FH*STHG + (1. - FH)*STH	SCIM 523
C.....HEIGHT DISPLACEMENT BETWEEN PREVIOUS AND CURRENT POSITION	SCIM 524
820 DZ = HI - H	SCIM 525
SPHL=SQRT(PLPH*ABS(SPH))	SCIM 526
SPHS=SQRT((1.-PLPH)*ABS(SPH))	SCIM 527
SDHL=SQRT(DLPH*ABS(SDH))	SCIM 528
SDHS=SQRT((1.-DLPH)*ABS(SDH))	SCIM 529
STHL=SQRT(TLPH*ABS(STH))	SCIM 530
STHS=SQRT((1.-TLPH)*ABS(STH))	SCIM 531
SPH = SQRT(ABS(SPH))	SCIM 532
SDH = SQRT(ABS(SDH))	SCIM 533
STH = SQRT(ABS(STH))	SCIM 534
C.....COMPUTES HORIZONTAL DISPLACEMENT DX BETWEEN PREVIOUS AND CURRENT	SCIM 535
C POSITION, HORIZONTAL SCALE HL, AND VERTICAL SCALE VL	SCIM 536
C..... COMPUTES PERTURBATION VALUES PRH,DRH,TRH,URH,VRH AND WRH	SCIM 537
CALL PERTRB	SCIM 538
C ADDS RANDOM PERTURBATIONS TO PH,DH,TH	SCIM 539
PH = PH*(1. + PRH)	SCIM 540
DH = DH*(1. + DRH)	SCIM 541
TH = TH*(1. + TRH)	SCIM 542
C ADDS RANDOM WINDS TO UH,VH,WH	SCIM 543
UH=UH+URH	SCIM 544
VH=VH+VRH	SCIM 545
WH=WGH+WRH	SCIM 546
C.....SETS PREVIOUS RANDOM PERTURBATION IN P,D,T TO CURRENT	SCIM 547
C PERTURBATIONS, FOR NEXT CYCLE	SCIM 548
825 RP1S= PRHS	SCIM 549
RD1S= DRHS	SCIM 550
RT1S= TRHS	SCIM 551
RP1L=PRHL	SCIM 552
RD1L=DRHL	SCIM 553
RT1L=TRHL	SCIM 554
C..... SETS PREVIOUS MAGNITUDES TO CURRENT VALUES, FOR NEXT CYCLE	SCIM 555
SP1S=SPHS	SCIM 556
SD1S= SDHS	SCIM 557
ST1S=STHS	SCIM 558

SP1L=SPHL	SCIM 559
SD1L=SDHL	SCIM 560
ST1L=STHL	SCIM 561
C.....SETS PREVIOUS WIND PERTURBATION VALUES TO CURRENT VALUES,	SCIM 562
C FOR NEXT CYCLE	SCIM 563
RU1S=URHS	SCIM 564
RV1S=VRHS	SCIM 565
RU1L=URHL	SCIM 566
RV1L=VRHL	SCIM 567
RW1=WRH	SCIM 568
C.....SETS PREVIOUS WIND PERTURBATION MAGNITUDES TO CURRENT VALUES,	SCIM 569
C FOR NEXT CYCLE	SCIM 570
SU1S=SUHS	SCIM 571
SV1S=SVHS	SCIM 572
SU1L=SUHL	SCIM 573
SV1L=SVHL	SCIM 574
SW1=SWH	SCIM 575
C.....SETS PREVIOUS HEIGHT TO CURRENT HEIGHT, FOR NEXT CYCLE	SCIM 576
830 H1 = H	SCIM 577
C.....SETS PREVIOUS LATITUDE TO CURRENT LATITUDE, FOR NEXT CYCLE	SCIM 578
PH1R=PHIR	SCIM 579
C.....SETS PREVIOUS LONGITUDE TO CURRENT LONGITUDE, FOR NEXT CYCLE	SCIM 580
THET1R=THETR	SCIM 581
C SETS NMORE TO COMPUTE MORE DATA ON NEXT CYCLE	SCIM 582
840 NMORE = 1	SCIM 583
C.....NO MORE DATA IF P, D, OR T LEQ 0	SCIM 584
IF(PH*DH*TH.LE.O.) RETURN	SCIM 585
CALL STDATM(H,TS,PS,DS)	SCIM 586
IF ((PS*DS*TS).GT.O.) GO TO 870	SCIM 587
PGHP=0.	SCIM 588
DGHP=0.	SCIM 589
TGHP=0.	SCIM 590
PHP=0.	SCIM 591
DHP=0.	SCIM 592
THP=0.	SCIM 593
GO TO 880	SCIM 594
870 PGHP=100.*(PGH-PS)/PS	SCIM 595
DGHP=100.*(DGH-DS)/DS	SCIM 596
TGHP=100.*(TGH-TS)/TS	SCIM 597
PHP=100.*(PH-PS)/PS	SCIM 598
DHP=100.*(DH-DS)/DS	SCIM 599
THP=100.*(TH-TS)/TS	SCIM 600
C CONVERTS QBO P,D,T TO PERCENT	SCIM 601
880 PQ=100.*PQ	SCIM 602
DQ=100.*DQ	SCIM 603
TQ=100.*TQ	SCIM 604
C CONVERTS RANDOM P,D,T TO PERCENT	SCIM 605
PRH=100.*PRH	SCIM 606
DRH=100.*DRH	SCIM 607
TRH=100.*TRH	SCIM 608
PRHS=100.*PRHS	SCIM 609
DRHS=100.*DRHS	SCIM 610
TRHS=100.*TRHS	SCIM 611
PRHL=100.*PRHL	SCIM 612

	DRHL = 100. * DRHL	SCIM 613
	TRHL = 100. * TRHL	SCIM 614
	SPHS = 100. * SPHS	SCIM 615
	SDHS = 100. * SDHS	SCIM 616
	STHS = 100. * STHS	SCIM 617
	SPHL = 100. * SPHL	SCIM 618
	SDHL = 100. * SDHL	SCIM 619
	STHL = 100. * STHL	SCIM 620
C	CONVERTS WIND SHEAR TO M/S/KM	SCIM 621
	DUH = DUH * 1000.	SCIM 622
	DVH = DVH * 1000.	SCIM 623
	FQA = PQA * 100.	SCIM 624
	DQA = DQA * 100.	SCIM 625
	TQA = TQA * 100.	SCIM 626
	SPH = SPH * 100.	SCIM 627
	SDH = SDH * 100.	SCIM 628
	STH = STH * 100.	SCIM 629
	PSH = PSH * 100.	SCIM 630
	DSH = DSH * 100.	SCIM 631
	TSH = TSH * 100.	SCIM 632
	IF(NPOP.NE.O) GO TO 920	SCIM 633
	UPRE = UGH	SCIM 634
	VPRE = VGH	SCIM 635
	DUPRE = DUH / 1000.	SCIM 636
	DVPRE = DVH / 1000.	SCIM 637
	RETURN	SCIM 638
920	IF (IOPP.NE.O)	SCIM 639
	* WRITE(IOPP,951)H,PHI,THET,DGHP,TGH,UGH,VGH,WGH,SDHL,STHL,	SCIM 640
	& SUHL,SVHL	SCIM 641
951	FORMAT(F5.1,7F7.2,4F6.2)	SCIM 642
	WRITE(6,900) H,PHI,THET,PGH,DGH,TGH,UGH,CHAR(IWSYM),	SCIM 643
	1 VGH,PH,DH,TH,UH,CHAR(IWSYM),VH,DUH,	SCIM 644
	\$ DVH,SWH,IET,PGHP,DGHP,TGHP,WGH,PHP,DHP,THP,WH,PSH,DSH,TSH,	SCIM 645
	\$ SPU,SPV,PQ,DQ,TQ,UQ,	SCIM 646
	\$ VQ,PQA,DQA,TQA,UA,VA,PRHS,DRHS,TRHS,URHS,VRHS,SPHS,SDHS,STHS,	SCIM 647
	1SUHS,SVHS,PRHL,DRHL,TRHL,URHL,VRHL,SPHL,SDHL,STHL,SUHL,SVHL,	SCIM 648
	2PRH,DRH,TRH,URH,VRH,SPH,SDH,STH,SUH,SVH	SCIM 649
900	FORMAT(1X,F6.2,2F7.2,2(2E9.3,2F6.0,A1,F5.0),2F5.1,23X,F6.2/1X,	SCIM 650
	1 I5,14X,2(F8.1,'%'),F6.1,'%',E10.2,1X,	SCIM 651
	& 2(F8.1,'%'),F6.1,'%',F10.2,11X,	SCIM 652
	23F5.1,2F5.0,' SP'/102X,3F5.1,2F5.0,' QB0'/102X,3F5.1,2F5.0,' MAG'/	SCIM 653
	3 102X,3F5.1,2F5.0,' RANS'/102X,3F5.1,2F5.0,' SIGS'/	SCIM 654
	4102X,3F5.1,2F5.0,' RANL',/	SCIM 655
	5102X,3F5.1,2F5.0,' SIGL',/	SCIM 656
	6102X,3F5.1,2F5.0,' RANT',/	SCIM 657
	7102X,3F5.1,2F5.0,' SIGT',/)	SCIM 658
	RETURN	SCIM 659
	END	SCIM 660
	SUBROUTINE SELEC4	SELE 1
	INTEGER IOTEM2	SELE 2
	COMMON/C4/XL(16),YL(16),NP,DUMMY(2499)	SELE 3
C		SELE 4
C	SUBROUTINE TO SELECT POINTS FOR INTERPOLATION	SELE 5
C		SELE 6

	COMMON/IOTEMP/IOTEM1,IOTEM2,DUMMY2(61)	SELE	7
	COMMON /POINT/ IPT(16,5),LL(16),DXY(16,2)	SELE	8
	COMMON /ORDER/ IPTN(16,5),IREAD(65,3)	SELE	9
C		SELE	10
	DIMENSION IC(4),IL(2),JL(2),LIML(51),LIMU(51)	SELE	11
C		SELE	12
	DATA LIML/15,14,13,12,11,10,9,8,7,6,5,4,3,2,23*1,2,3,4,5,6,7,8,9,	SELE	13
	110,11,12,13,14,15/	SELE	14
	DATA LIMU/33,34,35,36,37,38,39,40,41,42,43,44,45,46,23*47,46,45,	SELE	15
	144,43,42,41,40,39,38,37,36,35,34,33/	SELE	16
	DATA PI/3.14159/	SELE	17
C		SELE	18
C	INITIALIZE	SELE	19
C		SELE	20
	PI4=PI/4.	SELE	21
	DEGRAD=PI/180.	SELE	22
	DO 1 I=1,16	SELE	23
	DO 1 J=1,5	SELE	24
	1 IPT(I,J)=0	SELE	25
C		SELE	26
C	MAJOR LOOP FOR POINTS	SELE	27
C		SELE	28
	DO 100 II=1,NP	SELE	29
C		SELE	30
	LA=ABS(XL(II))*10.+5	SELE	31
	LO=YL(II)*10.+5	SELE	32
	IF(LO.LT.O) LO = LO + 3600	SELE	33
	LL(II)=LA*10000+LO	SELE	34
	IF (XL(II).LT.O.) LL(II)=-LL(II)	SELE	35
C		SELE	36
	IF (XL(II)-15.1) 15,30,30	SELE	37
	15 IF (XL(II)) 50,40,40	SELE	38
C		SELE	39
C	NMC GRID	SELE	40
C		SELE	41
	30 IPT(II,5)=2	SELE	42
	YEL = YL(II)	SELE	43
	IF(YEL.LT.O.)YEL = YEL + 360.	SELE	44
	EL = (350-YEL)*DEGRAD	SELE	45
	PHI=XL(II)*DEGRAD	SELE	46
	R=31.204359052*(SIN(PI4-PHI/2.)/COS(PI4-PHI/2.))	SELE	47
	XX=R*COS(EL)+24.	SELE	48
	YY=R*SIN(EL)+26.	SELE	49
	I=XX	SELE	50
	J=YY	SELE	51
	DX=XX-I	SELE	52
	DY=YY-J	SELE	53
	DXY(II,1)=DX	SELE	54
	DXY(II,2)=DY	SELE	55
	IF (XL(II).GT.17.18) GO TO 31	SELE	56
	IF ((J.LT.1).OR.(J.GT.51)) GO TO 70	SELE	57
	IF ((I.LT.LIML(J)).OR.(I.GT.LIMU(J))) GO TO 70	SELE	58
	31 IC(1)=I*1000+J	SELE	59
	IF ((ABS(DX).GT..1).OR.(ABS(DY).GT..1)) GO TO 32	SELE	60

IP=1	SELE 61
GO TO 35	SELE 62
32 CONTINUE	SELE 63
IF (XL(II).GT.17.18) GO TO 34	SELE 64
IF (((I.GT.(LIMU(J)-1)).AND.((J.GE.15).AND.(J.LE.37)))	SELE 65
1 .OR.(J.GT.50)) GO TO 70	SELE 66
IF ((I+1.GT.LIMU(J+1)).OR.(I.LT.LIML(J+1))) GO TO 80	SELE 67
IF ((I.EQ.LIMU(J)).OR.(I.EQ.LIML(J))) GO TO 80	SELE 68
34 IP=4	SELE 69
IC(2)=(I+1)*1000+J	SELE 70
IC(3)=I*1000+J+1	SELE 71
IC(4)=(I+1)*1000+J+1	SELE 72
35 CONTINUE	SELE 73
REWIND IOTEM2	SELE 74
DO 38 IPG=1,1977	SELE 75
READ(IOTEM2) IJ	SELE 76
DO 38 K=1,IP	SELE 77
38 IF(IC(K).EQ.IJ) IPT(II,K)=IPG	SELE 78
GO TO 100	SELE 79
C	SELE 80
C EQUATORIAL GRID	SELE 81
C	SELE 82
40 IPT(II,5)=1	SELE 83
L1=XL(II)	SELE 84
L2=YI(II)	SELE 85
IF(L2.LT.O)L2 = L2 + 360	SELE 86
IL(1)=L1/5	SELE 87
IL(2)=IL(1)+1	SELE 88
JL(1)=(L2/5)+1	SELE 89
JL(2)=JL(1)-1	SELE 90
DO 45 K1=1,2	SELE 91
DO 45 K2=1,2	SELE 92
DLON = ABS(YI(II) - 5.*JL(K2))	SELE 93
IF (DLON .GT. 180.) DLON = ABS(360. - DLON)	SELE 94
IF ((ABS(XL(II))-5.*IL(K1)).GT.O.1).OR.(DLON.GT.O.1))GOTO 45	SELE 95
IF (JL(K2).EQ.72) JL(K2)=O	SELE 96
IPT(II,1)=JL(K2)*4+IL(K1)+1	SELE 97
GO TO 100	SELE 98
45 CONTINUE	SELE 99
IF (JL(1).EQ.72) JL(1)=O	SELE 100
IPT(II,1)=JL(1)*4+IL(1)+1	SELE 101
IPT(II,2)=JL(2)*4+IL(1)+1	SELE 102
IPT(II,3)=JL(1)*4+IL(2)+1	SELE 103
IPT(II,4)=JL(2)*4+IL(2)+1	SELE 104
GO TO 100	SELE 105
C	SELE 106
C SOUTHERN HEMISPHERE	SELE 107
C	SELE 108
50 IPT(II,5)=3	SELE 109
L1=XL(II)	SELE 110
L2=YI(II)	SELE 111
IF(L2.LT.O)L2 = L2 + 360	SELE 112
IF (ABS(XL(II)).LT.85.O) GO TO 51	SELE 113
IPT(II,1)=1	SELE 114

	IF (ABS(XL(II)+90.) .LT. 0.11) GO TO 100	SELE 115
51	CONTINUE	SELE 116
	IL(1)=(L1/5)-1	SELE 117
	JL(1)=(L2/5)+1	SELE 118
	IL(2)=IL(1)+1	SELE 119
	JL(2)=JL(1)-1	SELE 120
	DO 52 K1=1,2	SELE 121
	DO 52 K2=1,2	SELE 122
	DLON = ABS(YL(II) - 5.*JL(K2))	SELE 123
	IF(DLON .GT. 180.) DLON = ABS(360. - DLON)	SELE 124
	IF ((ABS(XL(II)-5.*IL(K1)) .GT. 0.1) .OR. (DLON .GT. 0.1)) GOTO 52	SELE 125
	IF (JL(K2) .EQ. 72) JL(K2)=0	SELE 126
	IP1(II,1)=JL(K2)*17-IL(K1)+1	SELE 127
	IF(IL(K1) .NE. 0) GO TO 100	SELE 128
	IP1(II,1)=JL(K2)*4+1	SELE 129
	IP1(II,5)=1	SELE 130
	GO TO 100	SELE 131
52	CONTINUE	SELE 132
	IF (JL(1) .EQ. 72) JL(1)=0	SELE 133
	IF (IP1(II,1) .EQ. 1) GO TO 54	SELE 134
	IP1(II,1)=JL(1)*17-IL(1)+1	SELE 135
	IP1(II,2)=JL(2)*17-IL(1)+1	SELE 136
	IF (IL(2)) 55,53,55	SELE 137
53	IP1(II,3)=JL(1)*4+1	SELE 138
	IP1(II,4)=JL(2)*4+1	SELE 139
	IP1(II,5)=1133	SELE 140
	GO TO 100	SELE 141
54	IP1(II,2)=JL(1)*17-IL(2)+1	SELE 142
	IP1(II,3)=JL(2)*17-IL(2)+1	SELE 143
	IP1(II,5)=333	SELE 144
	GO TO 100	SELE 145
55	CONTINUE	SELE 146
	IP1(II,3)=JL(1)*17-IL(2)+1	SELE 147
	IP1(II,4)=JL(2)*17-IL(2)+1	SELE 148
	GO TO 100	SELE 149
C		SELE 150
C	BORDERLINE POINTS	SELE 151
C		SELE 152
70	CONTINUE	SELE 153
C	TWO NMC, TWO EQUATORIAL	SELE 154
	IP1(II,5)=2211	SELE 155
	L=YL(II)	SELE 156
	IP1(II,1)=((L/5)+2)*4	SELE 157
	IP1(II,2)=IP1(II,1)-4	SELE 158
	IF (L .GE. 355) IP1(II,1)=4	SELE 159
C		SELE 160
	IF (J .LT. 1) J=1	SELE 161
	IF (J .GT. 51) J=51	SELE 162
	IF (I .LT. LIML(J)) I=LIML(J)	SELE 163
	IF (I .GT. LIMU(J)) I=LIMU(J)	SELE 164
	IC(1)=I*1000+J	SELE 165
	IF ((J .LT. 15) .OR. (J .GT. 37)) GO TO 72	SELE 166
	IC(2)=I*1000+J+1	SELE 167
	GO TO 76	SELE 168

72 IF ((J.NE.1).AND.(J.NE.51)) GO TO 74	SELE 169
IF (I.EQ.LIMU(J)) GO TO 73	SELE 170
IC(2)=(I+1)*1000+J	SELE 171
GO TO 76	SELE 172
73 IC(2)=(I-1)*1000+J	SELE 173
GO TO 76	SELE 174
74 IF (I.EQ.LIML(J)) GO TO 75	SELE 175
IC(2)=LIMU(J+1)*1000+J+1	SELE 176
GO TO 76	SELE 177
75 IC(2)=LIML(J+1)*1000+J+1	SELE 178
C	SELE 179
76 REWIND IOTEM2	SELE 180
DO 77 IPG=1,1977	SELE 181
READ(IOTEM2) IJ	SELE 182
DO 77 K=1,2	SELE 183
77 IF(IC(K).EQ.IJ) IPT(II,K+2)=IPG	SELE 184
GO TO 100	SELE 185
C	SELE 186
80 CONTINUE	SELE 187
C THREE NMC, ONE EQUATORIAL	SELE 188
IPT(II,5)=2212	SELE 189
IC(2) = 0	SELE 190
L=YL(II)	SELE 191
IPT(II,2)=((L/5)+1)*4	SELE 192
IF (L.GE.355) IPT(II,2)=4	SELE 193
IF (I.EQ.LIML(J)) GO TO 84	SELE 194
IF (J.GT.37) GO TO 82	SELE 195
IC(1)=I*1000+J	SELE 196
IC(3)=I*1000+J+1	SELE 197
IC(4)=(I+1)*1000+J+1	SELE 198
GO TO 88	SELE 199
82 IC(1)=(I+1)*1000+J	SELE 200
IC(3)=I*1000+J	SELE 201
IC(4)=I*1000+J+1	SELE 202
GO TO 88	SELE 203
84 IF (J.GT.37) GO TO 86	SELE 204
IC(1)=(I-1)*1000+J+1	SELE 205
IC(3)=I*1000+J+1	SELE 206
IC(4)=I*1000+J	SELE 207
GO TO 88	SELE 208
86 IC(1)=(I+1)*1000+J+1	SELE 209
IC(3)=(I+1)*1000+J	SELE 210
IC(4)=I*1000+J	SELE 211
C	SELE 212
88 REWIND IOTEM2	SELE 213
DO 89 IPG=1,1977	SELE 214
READ(IOTEM2) IJ	SELE 215
DO 89 K=1,4	SELE 216
IF(IC(K).EQ.0) GO TO 89	SELE 217
IF(IC(K).EQ.IJ) IPT(II,K)=IPG	SELE 218
89 CONTINUE	SELE 219
C	SELE 220
100 CONTINUE	SELE 221
DO 150 I=1,16	SELE 222

DO 150 J=1,5	SELE 223
150 IPTN(I,J)=IPT(1,J)	SELE 224
CALL SORT4(NP)	SELE 225
RETURN	SELE 226
END	SELE 227
SUBROUTINE SETUP	SETU 1
CHARACTER*2 IC	SETU 2
COMMON /COTRAN/NDATA(19),MI,IH,IEX,IX(10)	SETU 3
COMMON /COTRAN1/IC	SETU 4
COMMON /IPRTP/IPRT,NLIMIT	SETU 5
DIMENSION IP(5),ID(5),IT(5),IDAY(12),XWR(29)	SETU 6
COMMON /IOTEMP/IOTEM1,IOTEM2,IUS,DD,XMJD,PHI1,PHI,	SETU 7
.NSAME,RP1L,RD1L,RT1L,SP1L,SD1L,ST1L,RU1L,RV1L,SU1L,SV1L,	SETU 8
\$ MN, IDD, IYR, H1, PHI1R,THETA1R,DUMS(21),RP1S,RD1S	SETU 9
1,RT1S,RU1S,RV1S,SP1S,SD1S,ST1S,SU1S,SV1S,UDS1,VDS1,	SETU 10
2UDL1,VDL1,UDS2,VDS2,UDL2,VDL2	SETU 11
COMMON /PDTCOM/IU4,MONTH,IOPR,	SETU 12
. PSP(15,19,18),DSP(15,19,18),TSP(15,19,18),USP(15,19,18),	SETU 13
. VSP(15,19,18),	SETU 14
. PG(21,19),DG(21,19),TG(21,19),UG(21,19),	SETU 15
. PAQ(17,5),DAQ(17,5),TAQ(17,5),UAQ(17,5),VAQ(17,5),	SETU 16
. PDQ(17,5),DDQ(17,5),TDQ(17,5),UDQ(17,5),VDQ(17,5),	SETU 17
. PR(29,19),DR(29,19),TR(29,19),UR(29,19),VR(29,19),	SETU 18
* PQ,DQ,TQ,UQ,VQ,PQA,DQA,	SETU 19
. TQA,UA,VA,IOPQ,PLP(25,10),DLP(25,10),TLP(25,10)	SETU 20
1,ULP(25,10),VLP(25,10),UDL(25,10),VDL(25,10),UDS(25,10)	SETU 21
2,VDS(25,10)	SETU 22
COMMON /CHIC/DUM(18),IWSYM,USH,VSH,DUSH,DVSH	SETU 23
COMMON /RAND/IXX,IY,IZ	SETU 24
COMMON /VERT/RW1,SW1,WRH,SWH,WR(29)	SETU 25
DIMENSION IDUM(9)	SETU 26
DATA IDAY/0,31,59,90,120,151,181,212,243,273,304,334/	SETU 27
DATA XWR/.87,.15,.14,.08,.04,.04,.05,.07,.11,.14,.22,	SETU 28
& .34,.46,.73,1.30,2.11,3.40,6.30,9.58,10.55,11.51,11.32,11.13,	SETU 29
& 10.94,10.75,10.85,11.76,11.86,12.06/	SETU 30
DO 1 I = 1,29	SETU 31
1 WR(I) = XWR(I)	SETU 32
XMJD = 0.	SETU 33
IF (MN.GT.12) GO TO 2	SETU 34
IDA = IDAY(MN) + IDD	SETU 35
DD = IDA	SETU 36
IF (MOD(IYR,4).EQ.0.AND.MN.GT.2) IDA = IDA + 1	SETU 37
XMJD = 2439856. + 365. * (IYR - 68.) + IDA + INT((IYR - 65.)	SETU 38
\$ / 4.)	SETU 39
C.....SECOND DATA LINE READS, FREE FIELD, THE FOLLOWING DATA:	SETU 40
C.... IUS = UNIT NUMBER FOR SCIDAT DATA	SETU 41
C I U4 = UNIT FOR 4-D INPUT P,D,T 0-25KM DATA	SETU 42
C IOPR = RANDOM OUTPUT OPTION	SETU 43
C.....IOPR=1 RANDOM OUTPUT IOPR=2 NO RANDOM OUTPUT	SETU 44
C IOPQ = QBO OUTPUT OPTION	SETU 45
C.....IOPQ=1 QBO OUTPUT IOPQ=2 NO QBO OUTPUT	SETU 46
C NR1 = STARTING RANDOM NUMBER	SETU 47
C.....IOTEM1=UNIT FOR 4-D P, D, T DATA (SCRATCH FILE, DOES NOT NEED TO	SETU 48
C BE ASSIGNED)	SETU 49

C.....	IOTEM2=UNIT FOR NMC GRID POINTS (SCRATCH FILE, DOES NOT NEED TO	SETU	50
C	BE ASSIGNED)	SETU	51
C	IPRT = 0 FOR 4-D DIAGNOSTIC OUTPUT, = 1 FOR NONE	SETU	52
C	NLIMIT = MAXIMUM NUMBER OF TEST VIOLATIONS ALLOWED IN 4D	SETU	53
C	DATA (12 LE NLIMIT LE 25)	SETU	54
2	READ(5,*) IUS,IU4,IOPR,IOPQ,NR1,IOTEM1,IOTEM2,IPRT,NLIMIT	SETU	55
	IF(NLIMIT.LT.12) NLIMIT=12	SETU	56
	IF(NLIMIT.GT.25) NLIMIT=25	SETU	57
	WRITE(6,9000) IUS,IU4,IOPR,IOPQ,NR1,IOTEM1,IOTEM2	SETU	58
	\$,XMJD	SETU	59
	IF (IOPR.LT.1.OR.IOPR.GT.2) GO TO 666	SETU	60
	IF (IOPQ.LT.1.OR.IOPQ.GT.2) GO TO 666	SETU	61
	MONTH=MN	SETU	62
	RPSCALE = 1.0	SETU	63
	IF (IOPR.EQ.2) GO TO 7	SETU	64
	IF(NR1 .LE. 0 .OR. NR1 .GE. 30000)STOP 'FIRST RANDOM NUMBER OUT OF	SETU	65
	\$ RANGE'	SETU	66
	IXX = NR1	SETU	67
	IY = 172 * MOD(IXX, 176) - 35 * (IXX / 176)	SETU	68
	IZ = 170 * MOD(IXX, 178) - 63 * (IXX / 178)	SETU	69
	IF (IY .LT. 0) IY = IY + 30307	SETU	70
	IF (IZ .LT. 0) IZ = IZ + 30323	SETU	71
	R = RANDOM(L)	SETU	72
	IF(L .EQ. 1)STOP 'BAD CALL TO RANDOM ON FIRST TRY'	SETU	73
C.....	THIRD DATA LINE READS FREE FIELD, THE FOLLOWING DATA	SETU	74
C	EACH FOR LARGE SCALE (L) AND SMALL SCALE (S) COMPONENTS	SETU	75
C	RP1L,RP1S = INITIAL RANDOM PRESSURE PERTURBATION, PERCENT	SETU	76
C	RD1L,RD1S = INITIAL RANDOM DENSITY PERTURBATION, PERCENT	SETU	77
C	RT1L,RT1S = INITIAL RANDOM TEMPERATURE PERTURBATION, PERCENT	SETU	78
C	RU1L,RU1S = INITIAL EASTWARD WIND PERTURBATION, W/S	SETU	79
C	RV1L,RV1S = INITIAL NORTHWARD WIND PERTURBATION, W/S	SETU	80
C	RPSCALE = RANDOM PERTURBATION SCALE, NOMINAL=1.0	SETU	81
C	MAXIMUM=2.0 , MINIMUM=0.0	SETU	82
	READ(5,*)RP1L,RP1S,RD1L,RD1S,RT1L,RT1S,RU1L,RU1S,	SETU	83
	& RV1L,RV1S,RPSCALE	SETU	84
	IF((RPSCALE.LT.0.0).OR.(RPSCALE.GT.2.0)) RPSCALE=1.0	SETU	85
	RW1=0.	SETU	86
	RP1=RP1L+RP1S	SETU	87
	RD1=RD1S+RD1L	SETU	88
	RT1=RT1S+RT1L	SETU	89
	RU1=RU1L+RU1S	SETU	90
	RV1=RV1L+RV1S	SETU	91
C	AVOIDS FILE SEARCH IF CURRENT MONTH IS SAME AS PREVIOUS MONTH	SETU	92
	IF(NSAME.GT.0) GO TO 621	SETU	93
7	IF (NSAME.EQ.1) GO TO 621	SETU	94
	CALL GETNMC	SETU	95
C.....	LOADS NMC GRID DATA FROM INPUT UNIT TO SCRATCHFILE UNIT IOTEM2	SETU	96
	IF(MONTH .LT. 1 .OR. MONTH .GT. 12)GOTO 666	SETU	97
13	DO 100 I=1,252	SETU	98
	CALL RTRAN1	SETU	99
C....	READS ZONAL PRESSURE DATA	SETU	100
	IF(IC .NE. 'ZP')GOTO 666	SETU	101
	IF(MI .NE. MONTH)GO TO 100	SETU	102
50	IH=(IH-15)/5	SETU	103

TENX=10.**IEX	SETU 104
DO 60 J=1,19	SETU 105
60 PG(IH,J)=NDATA(J)*TENX	SETU 106
C....CONVERSION TO REAL AND STORAGE IN ARRAY COMPLETE	SETU 107
100 CONTINUE	SETU 108
DO 200 I=1,252	SETU 109
CALL RTRAN1	SETU 110
C.... READS ZONAL DENSITY DATA	SETU 111
IF(IC .NE. 'ZD')GO TO 666	SETU 112
IF(MI .NE. MONTH)GO TO 200	SETU 113
150 IH=(IH-15)/5	SETU 114
TENX=10.**IEX	SETU 115
DO 160 J=1,19	SETU 116
160 DG(IH,J)=NDATA(J)*TENX	SETU 117
C....CONVERSION TO REAL AND STORAGE IN ARRAY COMPLETE	SETU 118
200 CONTINUE	SETU 119
DO 300 I=1,252	SETU 120
CALL RTRAN1	SETU 121
C.... READS ZONAL MEAN TEMPERATURE DATA	SETU 122
IF(IC .NE. 'ZT')GO TO 666	SETU 123
IF(MI .NE. MONTH)GOTO 300	SETU 124
250 IH=(IH-15)/5	SETU 125
TENX=10.**IEX	SETU 126
DO 260 J=1,19	SETU 127
260 TG(IH,J) = NDATA(J)*TENX	SETU 128
C....CONVERSION TO REAL AND STORAGE IN ARRAY COMPLETE	SETU 129
300 CONTINUE	SETU 130
DO 305 I=1,252	SETU 131
CALL RTRAN1	SETU 132
C.... READS ZONAL AVG. ZONAL WIND DATA	SETU 133
IF(IC .NE. 'ZU')GO TO 666	SETU 134
IF(MI .NE. MONTH)GOTO 305	SETU 135
305 IH=(IH-15)/5	SETU 136
TENX=10.**IEX	SETU 137
DO 304 J=1,19	SETU 138
304 UG(IH,J)=NDATA(J)*TENX	SETU 139
C.... CONVERSION TO REAL AND STORAGE IN ARRAY COMPLETE	SETU 140
305 CONTINUE	SETU 141
308 DO 360 I=1,3060	SETU 142
CALL RTRAN	SETU 143
C.... READS STATIONARY PERTURBATION DATA FOR PRESSURE (TO BE STORED IN	SETU 144
C PSP ARRAY)	SETU 145
IF(IC .NE. 'SP')GO TO 666	SETU 146
IF(MI .EQ. MONTH) GO TO 320	SETU 147
GO TO 360	SETU 148
320 ISH=(IH-15)/5	SETU 149
K=(NDATA(1)+100)/10	SETU 150
DO 350 L=1,18	SETU 151
350 PSP(ISH,K,L)=NDATA(L+1)/1000.	SETU 152
C.... CONVERSION TO REAL AND STORAGE IN ARRAY COMPLETE	SETU 153
360 CONTINUE	SETU 154
DO 365 I=1,3060	SETU 155
CALL RTRAN	SETU 156
C.... READS STATIONARY PERTURBATION DATA FOR DENSITY (TO BE STORED IN	SETU 157

C	DSP ARRAY)	SETU 158
	IF (IC .NE. 'SD')GO TO 666	SETU 159
	IF (MI .EQ. MONTH)GOTO 362	SETU 160
	GO TO 365	SETU 161
362	ISH = (IH-15)/5	SETU 162
	K = (NDATA(1)+100)/10	SETU 163
	DO 364 L=1,18	SETU 164
364	DSP(ISH,K,L)=NDATA(L+1)/1000.	SETU 165
C....	CONVERSION TO REAL AND STORAGE IN ARRAY COMPLETE	SETU 166
365	CONTINUE	SETU 167
	DO 370 I=1,3060	SETU 168
	CALL RTRAN	SETU 169
C....	READS STATIONARY PERTURBATION DATA FOR TEMPERATURE(TO BE STORED IN	SETU 170
C	TSP ARRAY)	SETU 171
	IF (IC .NE. 'ST')GO TO 666	SETU 172
	IF (MI .EQ. MONTH)GOTO 367	SETU 173
	GO TO 370	SETU 174
367	ISH = (IH-15)/5	SETU 175
	K = (NDATA(1)+100)/10	SETU 176
	DO 369 L=1,18	SETU 177
369	TSP(ISH,K,L)=NDATA(L+1)/1000.	SETU 178
C....	CONVERSION TO REAL AND STORAGE IN ARRAY COMPLETE	SETU 179
370	CONTINUE	SETU 180
	DO 375 I=1,3060	SETU 181
	CALL RTRAN	SETU 182
C....	READS STATIONARY PERTURBATION DATA FOR ZONAL WIND(TO BE STORED IN	SETU 183
C	USP ARRAY)	SETU 184
	IF (IC .NE. 'SU')GO TO 666	SETU 185
	IF (MI .EQ. MONTH)GOTO 372	SETU 186
	GO TO 375	SETU 187
372	ISH = (IH-15)/5	SETU 188
	K = (NDATA(1)+100)/10	SETU 189
	DO 374 L=1,18	SETU 190
374	USP(ISH,K,L)=NDATA(L+1)/10.	SETU 191
C....	CONVERSION TO REAL AND STORAGE IN ARRAY COMPLETE	SETU 192
375	CONTINUE	SETU 193
	DO 380 I=1,3060	SETU 194
	CALL RTRAN	SETU 195
C....	READS STATIONARY PERTURBATION DATA FOR MERIDIONAL WIND(TO BE	SETU 196
C	STORED IN VSP ARRAY)	SETU 197
	IF (IC .NE. 'SV')GO TO 666	SETU 198
	IF (MI .EQ. MONTH)GOTO 377	SETU 199
	GO TO 380	SETU 200
377	ISH = (IH-15)/5	SETU 201
	K = (NDATA(1)+100)/10	SETU 202
	DO 379 L=1,18	SETU 203
379	VSP(ISH,K,L)=NDATA(L+1)/10.	SETU 204
C....	CONVERSION TO REAL AND STORAGE IN ARRAY COMPLETE	SETU 205
380	CONTINUE	SETU 206
C....	ZERO STATIONARY PERTURBATIONS AT LATITUDE +90 AND -90	SETU 207
	DO 382 I=1,15	SETU 208
	DO 382 L=1,18	SETU 209
	DO 382 K=1,19,18	SETU 210
	PSP(I,K,L)=0.	SETU 211

DSP(I,K,L)=0.	SETU 212
TSP(I,K,L)=0.	SETU 213
USP(I,K,L)=0.	SETU 214
VSP(I,K,L)=0.	SETU 215
382 CONTINUE	SETU 216
DO 430 I=1,300	SETU 217
C.... READS RANDOM PERTURBATIONS IN PRESSURE	SETU 218
CALL RTRAN1	SETU 219
IF(IC .NE. 'RP')GO TO 666	SETU 220
IF(MI .EQ. MONTH)GO TO 410	SETU 221
GO TO 430	SETU 222
410 IHR = (IH+5)/5	SETU 223
IF(IH .GT. 120)IHR=19+IH/20	SETU 224
DO 420 K=1,19	SETU 225
420 PR(IHR,K)=(NDATA(K)*RPSCALE/1000.0)**2	SETU 226
430 CONTINUE	SETU 227
DO 445 I=1,300	SETU 228
C.... READS RANDOM PERTURBATIONS IN DENSITY	SETU 229
CALL RTRAN1	SETU 230
IF(IC .NE. 'RD')GO TO 666	SETU 231
IF(MI .EQ. MONTH)GO TO 435	SETU 232
GO TO 445	SETU 233
435 IHR = (IH+5)/5	SETU 234
IF(IH .GT. 120)IHR=19+IH/20	SETU 235
DO 440 K=1,19	SETU 236
440 DR(IHR,K)=(NDATA(K)*RPSCALE/1000.0)**2	SETU 237
445 CONTINUE	SETU 238
DO 460 I=1,300	SETU 239
C.... READS RANDOM PERTURBATIONS IN TEMPERATURE	SETU 240
CALL RTRAN1	SETU 241
IF(IC .NE. 'RT')GO TO 666	SETU 242
IF(MI .EQ. MONTH)GO TO 450	SETU 243
GO TO 460	SETU 244
450 IHR = (IH+5)/5	SETU 245
IF(IH .GT. 120)IHR=19+IH/20	SETU 246
DO 455 K=1,19	SETU 247
455 TR(IHR,K)=(NDATA(K)*RPSCALE/1000.0)**2	SETU 248
460 CONTINUE	SETU 249
DO 475 I=1,348	SETU 250
C.... READS RANDOM PERTURBATIONS IN ZONAL WIND	SETU 251
CALL RTRAN1	SETU 252
IF(IC .NE. 'RU')GO TO 666	SETU 253
IF(MI .EQ. MONTH)GO TO 465	SETU 254
GO TO 475	SETU 255
465 IHR = (IH+5)/5	SETU 256
IF(IH .GT. 120)IHR=19+IH/20	SETU 257
DO 470 K=1,19	SETU 258
470 UR(IHR,K)=(NDATA(K)*RPSCALE/10.0)**2	SETU 259
475 CONTINUE	SETU 260
DO 490 I=1,348	SETU 261
C.... READS RANDOM PERTURBATIONS IN MERIDIONAL WIND	SETU 262
CALL RTRAN1	SETU 263
IF(IC .NE. 'RV')GO TO 666	SETU 264
IF(MI .EQ. MONTH)GO TO 480	SETU 265

GO TO 490	SETU 266
480 IHR = (IH+5)/5	SETU 267
IF(IH .GT. 120) IHR=19+IH/20	SETU 268
DO 485 K=1,19	SETU 269
485 VR(IHR,K)=(NDATA(K)*RPSCALE/10.0)**2	SETU 270
490 CONTINUE	SETU 271
C.... RANDOM SIGMAS ARE ZEROED IF IOPR=2	SETU 272
IF(IOPR .EQ. 1) GO TO 500	SETU 273
DO 495 I=1,29	SETU 274
DO 495 J=1,19	SETU 275
PR(I,J) = 0.	SETU 276
DR(I,J) = 0.	SETU 277
TR(I,J)=0.	SETU 278
UR(I,J)=0.	SETU 279
495 VR(I,J)=0.	SETU 280
500 DO 840 I=1,25	SETU 281
CALL RTRAN2	SETU 282
DO 810 K=1,5	SETU 283
IP(K)=NDATA(2+K)	SETU 284
ID(K)=NDATA(7+K)	SETU 285
810 IT(K)=NDATA(12+K)	SETU 286
820 IF(IH.GT.90) IH=70+(IH/4)	SETU 287
IH=1+(IH/5)	SETU 288
IF(IC .NE. 'P ' .OR. IH .NE. 1) GOTO 666	SETU 289
DO 830 J=1,5	SETU 290
PLP(I,J+5)=IP(J)/1000.	SETU 291
PLP(I,6-J)=IP(J)/1000.	SETU 292
DLP(I,J+5)=ID(J)/1000.	SETU 293
DLP(I,6-J)=ID(J)/1000.	SETU 294
TLP(I,J+5)=IT(J)/1000.	SETU 295
830 TLP(I,6-J)=IT(J)/1000.	SETU 296
840 CONTINUE	SETU 297
DO 865 I=1,25	SETU 298
CALL RTRAN2	SETU 299
DO 850 K=1,5	SETU 300
IP(K)=NDATA(2+K)	SETU 301
850 ID(K)=NDATA(7+K)	SETU 302
855 IF(IH.GT.90) IH=70+(IH/4)	SETU 303
IH=1+(IH/5)	SETU 304
IF(I .NE. IH .OR. IC .NE. 'PW') GO TO 666	SETU 305
DO 860 J=1,5	SETU 306
ULP(I,J+5)=IP(J)/1000.	SETU 307
ULP(I,6-J)=IP(J)/1000.	SETU 308
VLP(I,J+5)=ID(J)/1000.	SETU 309
860 VLP(I,6-J)=ID(J)/1000.	SETU 310
865 CONTINUE	SETU 311
DO 888 I=1,25	SETU 312
CALL RTRAN2	SETU 313
DO 875 K=1,5	SETU 314
IP(K)=NDATA(2+K)	SETU 315
875 ID(K)=NDATA(7+K)	SETU 316
880 IF(IH.GT.90) IH=70+(IH/4)	SETU 317
IH=1+(IH/5)	SETU 318
IF(IH .NE. 1 .OR. IC .NE. 'CS') GO TO 666	SETU 319

DO 885 J=1,5	SETU 320
UDS(I,J+5)=(IP(J)/1000.)	SETU 321
UDS(I,6-J)=(IP(J)/1000.)	SETU 322
VDS(I,J+5)=(ID(J)/1000.)	SETU 323
885 VDS(I,6-J)=(ID(J)/1000.)	SETU 324
888 CONTINUE	SETU 325
DO 898 I=1,25	SETU 326
CALL RTRAN2	SETU 327
DO 892 K=1,5	SETU 328
IP(K)=NDATA(2+K)	SETU 329
892 ID(K)=NDATA(7+K)	SETU 330
894 IF (IH.GT.90) IH= 70+(IH/4)	SETU 331
IH=1+(IH/5)	SETU 332
IF (IH.NE.I.OR.IC.NE.'CL') GO TO 666	SETU 333
DO 896 J=1,5	SETU 334
UDL(I,J+5)=(IP(J)/1000.)	SETU 335
UDL(I,6-J)=(IP(J)/1000.)	SETU 336
VDL(I,J+5)=(ID(J)/1000.)	SETU 337
896 VDL(I,6-J)=(ID(J)/1000.)	SETU 338
898 CONTINUE	SETU 339
IF (IOPR.EQ. 1)GO TO 910	SETU 340
DO 905 I=1,25	SETU 341
DO 905 J=1,10	SETU 342
PLP(I,J)=0.	SETU 343
DLP(I,J)=0.	SETU 344
TLP(I,J)=0.	SETU 345
ULP(I,J)=0.	SETU 346
VLP(I,J)=0.	SETU 347
UDS(I,J)=0.	SETU 348
UDL(I,J)=0.	SETU 349
VDS(I,J)=0.	SETU 350
VDL(I,J)=0.	SETU 351
905 CONTINUE	SETU 352
910 DO 530 I=1,16	SETU 353
CALL RTRAN2	SETU 354
IH=MI	SETU 355
527 IF (IC.NE.'QP') GO TO 666	SETU 356
IH = (IH-5)/5	SETU 357
DO 530 J=1,5	SETU 358
C.....CONVERT FROM INTEGER PER MIL - QBO PRESSURE AMPLITUDE	SETU 359
PAQ(IH,J) = IX(2*J-1)/1000.	SETU 360
C.....QBO PRESSURE PHASE (DAYS PAST JAN O. 1966)	SETU 361
530 PDQ(IH,J) = IX(2*J)*1.	SETU 362
DO 531 I = 1,5	SETU 363
PAQ(1,I) = 0.	SETU 364
531 CALL PHASE(PDQ(2,I), 15., PDQ(3,I), 20., PDQ(1,I), 10.)	SETU 365
DO 540 I=1,16	SETU 366
CALL RTRAN2	SETU 367
IH=MI	SETU 368
537 IF (IC.NE.'QD') GO TO 666	SETU 369
IH=(IH-5)/5	SETU 370
DO 540 J=1,5	SETU 371
C...CONVERT FROM INTEGER PER MIL - QBO DENSITY AMPLITUDE	SETU 372
DAQ(IH,J) = IX(2*J-1)/1000.	SETU 373

C.....QBO DENSITY PHASE (DAYS PAST JAN O, 1966)	SETU 374
540 DDQ(IH,J)=IX(2*J)*1.	SETU 375
DO 541 I = 1,5	SETU 376
DAQ(1,I) = 0.	SETU 377
541 CALL PHASE(DDQ(2,I), 15., DDQ(3,I), 20., DDQ(1,I), 10.)	SETU 378
DO 550 I=1, 16	SETU 379
CALL RTRAN2	SETU 380
IH=MI	SETU 381
547 IF (IC.NE.'QT') GO TO 666	SETU 382
IH = (IH- 5)/5	SETU 383
DO 550 J=1,5	SETU 384
C.....CONVERTS FROM INTEGER PER MIL - QBO TEMPERATURE AMPLITUDE	SETU 385
TAQ(IH,J) = IX(2*J-1)/1000.	SETU 386
C.....QBO TEMPERATURE PHASE	SETU 387
550 TDQ(IH,J) = IX(2*J)*1.	SETU 388
DO 551 I = 1,5	SETU 389
TAQ(1,I) = 0.	SETU 390
551 CALL PHASE(TDQ(2,I), 15., TDQ(3,I), 20., TDQ(1,I), 10.)	SETU 391
DO 560 I=1, 16	SETU 392
CALL RTRAN2	SETU 393
IH=MI	SETU 394
557 IF (IC.NE.'QU') GO TO 666	SETU 395
IH=(IH- 5)/5	SETU 396
DO 560 J=1,5	SETU 397
C.....EASTWARD WIND QBO AMPLITUDE - CONVERTED TO M/S	SETU 398
UAQ(IH,J) = IX(2 * J - 1) / 10.	SETU 399
C.....EASTWARD WIND QBO PHASE (DAYS PAST JAN O, 1966)	SETU 400
560 UDQ(IH,J)=IX(2*J)*1.	SETU 401
DO 561 I = 1,5	SETU 402
UAQ(1,I) = 0.	SETU 403
561 CALL PHASE(UDQ(2,I), 15., UDQ(3,I), 20., UDQ(1,I), 10.)	SETU 404
DO 570 I=1, 16	SETU 405
CALL RTRAN2	SETU 406
IH=MI	SETU 407
567 IF (IC.NE.'QV') GO TO 666	SETU 408
IH=(IH- 5)/5	SETU 409
DO 570 J=1,5	SETU 410
C.....NORTHWARD WIND QBO AMPLITUDE - CONVERTED TO M/S	SETU 411
VAQ(IH,J) = IX(2 * J - 1) / 10.	SETU 412
C.....NORTHWARD WIND QBO PHASE (DAYS PAST JAN O, 1966)	SETU 413
570 VDQ(IH,J)=IX(2*J)*1.	SETU 414
DO 571 I = 1,5	SETU 415
VAQ(1,I) = 0.	SETU 416
571 CALL PHASE(VDQ(2,I), 15., VDQ(3,I), 20., VDQ(1,I), 10.)	SETU 417
IF(IOPQ .EQ. 1)GOTO 611	SETU 418
C.....ZEROS QBO PARAMETERS IF IOPQ=2	SETU 419
600 DO 610 I=1, 17	SETU 420
DO 610 J=1,5	SETU 421
PAQ(I,J) = 0.	SETU 422
DAQ(I,J) = 0.	SETU 423
TAQ(I,J) = 0.	SETU 424
PDQ(I,J) = 0.	SETU 425
DDQ(I,J) = 0.	SETU 426
TDQ(I,J) = 0.	SETU 427

UAQ(I,J)=0.	SETU 428
UDQ(I,J)=0.	SETU 429
VAQ(I,J)=0.	SETU 430
VDQ(I,J)=0.	SETU 431
610 CONTINUE	SETU 432
C.... REWINDS FILE UNIT IUS	SETU 433
611 REWIND IUS	SETU 434
C	SETU 435
621 R=H1	SETU 436
IF(H1.LT.25.) R=25.	SETU 437
CALL RTERP(R,PHI1,PR,DR,TR,SP1,SD1,ST1)	SETU 438
CALL INTR25(PLP,DLP,H1,PHI1,PLP1,DLP1)	SETU 439
CALL INTR25(TLP,DLP,H1,PHI1,TLP1,R)	SETU 440
CALL INTRW(WR,H1,SW1)	SETU 441
SP1L=SQRT(PLP1*ABS(SP1))*100.	SETU 442
SP1S=SQRT((1.-PLP1)*ABS(SP1))*100.	SETU 443
SD1L=SQRT(DLP1*ABS(SD1))*100.	SETU 444
SD1S=SQRT((1.-DLP1)*ABS(SD1))*100.	SETU 445
ST1L=SQRT(TLP1*ABS(ST1))*100.	SETU 446
ST1S=SQRT((1.-TLP1)*ABS(ST1))*100.	SETU 447
CALL INTRUV(UR,VR,H1,PHI1,SU1,SV1)	SETU 448
CALL INTR25(ULP,VLP,H1,PHI1,ULP1,VLP1)	SETU 449
SU1L=SQRT(ULP1*ABS(SU1))	SETU 450
SU1S=SQRT((1.-ULP1)*ABS(SU1))	SETU 451
SV1L=SQRT(VLP1*ABS(SV1))	SETU 452
SV1S=SQRT((1.-VLP1)*ABS(SV1))	SETU 453
CALL INTR25(UDL,VDL,H1,PHI1,UDL1,VDL1)	SETU 454
CALL INTR25(UDS,VDS,H1,PHI1,UDS1,VDS1)	SETU 455
UDL1=UDL*100.	SETU 456
VDL1=VDL*100.	SETU 457
UDS1=UDS*100.	SETU 458
VDS1=VDS*100.	SETU 459
WRITE(6,9001) RP1L,RD1L,RT1L,SP1L,SD1L,ST1L,RU1L,RV1L,SU1L,SV1L,	SETU 460
1 'LARGE'	SETU 461
WRITE(6,9001)RP1S,RD1S,RT1S,SP1S,SD1S,ST1S,RU1S,RV1S	SETU 462
1, SU1S, SV1S, 'SMALL'	SETU 463
WRITE(6,9002)UDL1,VDL1,UDS1,VDS1	SETU 464
WRITE(6,9870)RPSCALE,IPRT,NLIMIT	SETU 465
WRITE(6,9003)	SETU 466
RP1L=RP1L/100.	SETU 467
RD1L=RD1L/100.	SETU 468
RT1L=RT1L/100.	SETU 469
SP1L=(SP1L/100.)	SETU 470
SD1L=(SD1L/100.)	SETU 471
ST1L=(ST1L/100.)	SETU 472
RP1S=RP1S/100.	SETU 473
RD1S=RD1S/100.	SETU 474
RT1S=RT1S/100.	SETU 475
SP1S=SP1S/100.	SETU 476
SD1S=SD1S/100.	SETU 477
ST1S=ST1S/100.	SETU 478
UDL1=UDL1/100.	SETU 479
VDL1=VDL1/100.	SETU 480
UDS1=UDS1/100.	SETU 481

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VDS1=VDS1/100. SETU 482
WRITE(6,630) SETU 483
RETURN SETU 484
666 WRITE(6,700)IUS,IOPR,IOPQ,NR1,IOTEM1,IOTEM2. SETU 485
$MONTH,IC,MI,IH,IX,IEX,IP,ID,IT,SD1,NDATA SETU 486
700 FORMAT(' ERROR IN SETUP INPUT',/,3I5,I10,3I3,1X,A2,I3,I4,/,11I4, SETU 487
$,15I4,/,F10.1,/,19I6) SETU 488
STOP SETU 489
630 FORMAT(27X,'UNPERTURBED (MONTHLY MEAN)',11X,'MEAN PLUS PERTURBATIOSETU 490
1NS',9X,'THERMAL',/,23X,2(34(' ',2X),3X,'WIND',6X,'PERTURBATION VASETU 491
2LUES',/, ' HEIGHT LAT WEST PRES. DENS. TEMP MEAN SETU 492
3 PRES. DENS. TEMP TOTAL SHEAR',/,2X,'(KM)',11X,'LOSETU 493
4N',4X,'(NT/ (KG/ (DEG WIND (M/S) (NT/ (KG/ (DEG SETU 494
5WIND (M/S) (M/S/KM) ',28(' ',),/, ' TIME (DEG) (DEG)',2(' M**SETU 495
62) M**3) KEL- ',10(' ',),2X,8(' ',), ' P D T U V SETU 496
7 SIGW'/' (SEC)',35X,'VIN) E-W N-S',20X,'VIN) E-W N-S E-W SETU 497
8 N-S (%) (%) (%) M/S M/S M/S',45X,2(5X,'VERT.',26X)) SETU 498
9000 FORMAT(' SCIDAT INPUT UNIT = ',I2,I43,'4-D INPUT UNIT = ',I2,/ SETU 499
& ' RANDOM OPTION = ',I2,I43,'QBO OPTION = ',I2,/, SETU 500
& ' FIRST RANDOM NUMBER = ',I5,/, SETU 501
& ' 4-D P,D,T DATA SCRATCH UNIT = ',I2,I43, SETU 502
& 'NMC GRID POINTS SCRATCH UNIT = ',I2,I83,'JULIAN DATE = ', SETU 503
5F9.1,/) SETU 504
9001 FORMAT(' INITIAL P,D,T = ',3(F6.2,' % '),T60,'SIGMA P,D,T = ', SETU 505
13(F6.2,' % '),/, ' INITIAL U,V = ',2(F7.2,' M/S '),T60,'SIGMA SETU 506
2U,V = ',2(F7.2,' M/S '), 7X,A5,1X,'SCALE'/) SETU 507
9003 FORMAT(' ** PERCENT DEVIATIONS FROM 1976 US STANDARD ' SETU 508
1 ' ATMOSPHERE APPEAR BELOW PRESSURE, DENSITY AND TEMPERATURE ', SETU 509
2 'VALUES **'//) SETU 510
9002 FORMAT(' INITIAL UDL,VDL = ',2(F6.2,' % '), SETU 511
1T60,'INITIAL UDS,VDS = ',2(F6.2,' % ')) SETU 512
9870 FORMAT(' RANDOM PERTURBATION SCALING FACTOR = ',F7.3,T60, SETU 513
& '4-D DIAGNOSTICS PRINT OPTION = ',I2,/, SETU 514
& ' MAX. NUMBER OF 4-D TEST VIOLATIONS = ',I4) SETU 515
END SETU 516
SUBROUTINE SLV ( DEN , ALT , XLAT , DAY ) SLV 1
SLV 2
C*****SLV 3
C** 'SLV' COMPUTES THE SEASONAL-LATITUDINAL VARIATION OF DENSITY IN THE*SLV 4
C** LOWER THERMOSPHERE IN ACCORDANCE WITH L. JACCHIA, SAO 332, 1971. **SLV 5
C** THIS AFFECTS THE DENSITIES BETWEEN 90 AND 170 KM. 'SLV' NEED NOT **SLV 6
C** CALLED FOR DENSITIES ABOVE 170 KM, BECAUSE NO EFFECT IS OBSERVED. **SLV 7
C** **SLV 8
C** THE VARIATION SHOULD BE COMPUTED AFTER THE CALCULATION OF DENSITY **SLV 9
C** DUE TO TEMPERATURE VARIATIONS AND THE DENSITY(DEN) MUST BE IN THE **SLV 10
C** FORM OF A BASE 10 LOG. NO ADJUSTMENTS ARE MADE TO THE TEMPERATURE**SLV 11
C** OR CONSTITUENT NUMBER DENSITIES IN THE REGION AFFECTED BY THIS **SLV 12
C** VARIATION. **SLV 13
C** **SLV 14
C** DEN = DENSITY (LOG10) **SLV 15
C** ALT = ALTITUDE (KM) **SLV 16
C** XLAT = LATITUDE (RAD) **SLV 17
C** DAY = DAY NUMBER **SLV 18
C** **SLV 19

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C*****SLV 20
C** INITIALIZE DENSITY (DEN) = 0.0SLV 21
C                                  SLV 22
C      DEN = 0.0SLV 23
C                                  SLV 24
C** CHECK IF ALTITUDE EXCEEDS 170 KMSLV 25
C                                  SLV 26
C      IF ( ALT. GT. 170. ) RETURNSLV 27
C                                  SLV 28
C** COMPUTE DENSITY CHANGE IN LOWER THERMOSPHERESLV 29
C                                  SLV 30
C      Z = ALT - 90.SLV 31
C      X = -0.0013 * Z * ZSLV 32
C      Y = 0.0172 * DAY + 1.72SLV 33
C      P = SIN (Y)SLV 34
C      SP = ( SIN (XLAT) ) **2SLV 35
C      S = 0.014 * Z * EXP (X)SLV 36
C      D = S * P * SPSLV 37
C                                  SLV 38
C** CHECK TO COMPUTE ABSOLUTE VALUE OF 'XLAT'SLV 39
C                                  SLV 40
C      IF ( XLAT. LT. 0. ) D = -DSLV 41
C      DEN = DSLV 42
C                                  SLV 43
C      RETURNSLV 44
C      ENDSLV 45
C      SUBROUTINE SLVH ( DEN , DENHE , XLAT , SDA )SLV 46
C                                  SLVH 1
C                                  SLVH 2
C*****SLVH 3
C** 'SLVH' COMPUTES THE SEASONAL-LATITUDINAL VARAITION OF THE HELIUM **SLVH 4
C** NUMBER DENSITY ACCORDING TO L. JACCHIA, SAO 332, 1971. THIS **SLVH 5
C** CORRECTION IS NOT IMPORTANT BELOW ABOUT 500 KM. **SLVH 6
C** **SLVH 7
C**      DEN = DENSITY (LOG10) **SLVH 8
C**      DENHE = HELIUM NUMBER DENSITY (LOG10) **SLVH 9
C**      XLAT = LATITUDE (RAD) **SLVH 10
C**      SDA = SOLAR DECLINATION ANGLE (RAD) **SLVH 11
C*****SLVH 12
C                                  SLVH 13
C      DO = 10. ** DENHESLVH 14
C      A = ABS ( 0.65 * ( SDA / 0.40909079 ) )SLVH 15
C                                  SLVH 16
C      B = 0.5 * XLATSLVH 17
C                                  SLVH 18
C** CHECK TO COMPUTE ABSOLUTE VALUE OF 'B'SLVH 19
C                                  SLVH 20
C      IF ( SDA. LT. 0. ) B = -BSLVH 21
C                                  SLVH 22
C** COMPUTE X, Y, DHE AND DENHESLVH 23
C                                  SLVH 24
C      X = 0.7854 - BSLVH 25
C      Y = ( SIN (X) ) ** 3SLVH 26
C      DHE= A * ( Y - 0.35356 )SLVH 27

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DENHE = DENHE + DHE	SLVH 28
C	SLVH 29
C** COMPUTE HELIUM NUMBER DENSITY CHANGE	SLVH 30
C	SLVH 31
D1 = 10. ** DENHE	SLVH 32
DEL= D1 - DO	SLVH 33
RHO= 10. ** DEN	SLVH 34
DRHO = (6.646E-24) * DEL	SLVH 35
RHO = RHO + DRHO	SLVH 36
DEN = ALOG10 (RHO)	SLVH 37
	SLVH 38
RETURN	SLVH 39
END	SLVH 40
SUBROUTINE SORT4(NP)	SORT 1
C	SORT 2
SORTS POINTS FOR SEQUENTIAL FILE READING	SORT 3
C	SORT 4
ASSIGNS POINT NUMBERS BY ORDER ON FILE, NOT BY GRID	SORT 5
C	SORT 6
COMMON /ORDER/ IPT (16,5),IREAD(65,3)	SORT 7
C	SORT 8
DO 1 I=1,65	SORT 9
DO 1 J=1,3	SORT 10
1 IREAD(I,J)=0	SORT 11
DO 9 I=1,NP	SORT 12
IF(IPT(I,5).LT.1) GO TO 10	SORT 13
IF(IPT(I,5).EQ.1) GO TO 9	SORT 14
IF(IPT(I,5).EQ.2) GO TO 2	SORT 15
IF(IPT(I,5).EQ.3) GO TO 4	SORT 16
IF(IPT(I,5).EQ.1133)GO TO 6	SORT 17
IF(IPT(I,5).EQ.2211) GO TO 7	SORT 18
IF(IPT(I,5).EQ.2212)GO TO 8	SORT 19
IF (IPT(I,5).EQ.333) GO TO 4	SORT 20
GO TO 10	SORT 21
2 DO 3 J=1,4	SORT 22
IF(IPT(I,J).LT.1) GO TO 3	SORT 23
IPT(I,J)=IPT(I,J)+288	SORT 24
3 CONTINUE	SORT 25
GO TO 9	SORT 26
4 DO 5 J=1,4	SORT 27
IF(IPT(I,J).LT.1) GO TO 5	SORT 28
IPT(I,J)=IPT(I,J)+2265	SORT 29
5 CONTINUE	SORT 30
GO TO 9	SORT 31
6 IF(IPT(I,1).GT.0)IPT(I,1)=IPT(I,1)+2265	SORT 32
IF(IPT(I,2).GT.0)IPT(I,2)=IPT(I,2)+2265	SORT 33
GO TO 9	SORT 34
7 IF(IPT(I,3).GT.0)IPT(I,3)=IPT(I,3)+288	SORT 35
IF(IPT(I,4).GT.0)IPT(I,4)=IPT(I,4)+288	SORT 36
GO TO 9	SORT 37
8 IF(IPT(I,1).GT.0)IPT(I,1)=IPT(I,1)+288	SORT 38
IF(IPT(I,3).GT.0)IPT(I,3)=IPT(I,3)+288	SORT 39
IF(IPT(I,4).GT.0)IPT(I,4)=IPT(I,4)+288	SORT 40
9 CONTINUE	SORT 41

C		SORT	42
C	REORDERS POINT NUMBERS FOR READ	SORT	43
C		SORT	44
	10 IR=0	SORT	45
	DO 13 K=1,NP	SORT	46
	DO 13 L=1,4	SORT	47
	MP=IPT(K,L)	SORT	48
	IF(MP.LT.1) GO TO 13	SORT	49
	11 II=K	SORT	50
	JJ=L	SORT	51
	DO 12 I=1,NP	SORT	52
	DO 12 J=1,4	SORT	53
	IF (IPT(I,J).LT.1) GO TO 12	SORT	54
	IF(IPT(I,J).GT.3490) GO TO 12	SORT	55
	IF(IPT(I,J).GE.MP) GO TO 12	SORT	56
	II=I	SORT	57
	JJ=J	SORT	58
	MP=IPT(I,J)	SORT	59
	12 CONTINUE	SORT	60
	IF(IPT(II,JJ).GT.3490) GO TO 14	SORT	61
	IR=IR+1	SORT	62
	IREAD(IR,1)=II	SORT	63
	IREAD(IR,2)=JJ	SORT	64
	IREAD(IR,3)=IPT(II,JJ)	SORT	65
	IPT(II,JJ)=IPT(II,JJ)+9000	SORT	66
	MP=IPT(K,L)	SORT	67
	IF(MP.GT.3490) GO TO 13	SORT	68
	GO TO 11	SORT	69
	13 CONTINUE	SORT	70
	14 RETURN	SORT	71
	END	SORT	72
	SUBROUTINE STDATM(Z,T,P,D)	STDA	1
	DIMENSION ZS(49),TMS(49),WMS(49),PS(49)	STDA	2
	DATA (ZS(I),I=1,49)/0., 11.019, 20.063, 32.162, 47.35,	STDA	3
	& 51.413,71.802,86.,91.,94.,97.,100.,103.,106.,108.,110.,	STDA	4
	& 112.,115.,120.,125.,130.,135.,140.,145.,150.,155.,160.,165.,	STDA	5
	& 170., 180., 190., 210., 230., 265., 300., 350., 400., 450.,	STDA	6
	& 500.,550.,600.,650.,700.,750.,800.,850.,900.,950.,1000./	STDA	7
	DATA (TMS(I),I=1,49)/288.15,216.65,216.65,228.65,270.65,270.65,	STDA	8
	& 214.65,186.95,186.87,187.74,190.40,195.08,202.23,212.89,223.29,	STDA	9
	& 240.0,264.0,300.00,360.00,417.23,469.27,516.59,559.63,598.78,	STDA	10
	& 634.39, 666.80, 696.29, 723.13, 747.57, 790.07, 825.31,	STDA	11
	& 878.84, 915.78, 955.20, 976.01, 990.06, 995.83, 998.22,	STDA	12
	& 999.24, 999.67, 999.85, 999.93, 999.97, 999.99, 999.99,	STDA	13
	& 1000., 1000., 1000., 1000./	STDA	14
	DATA (WMS(I),I=1,49)/28.9644,28.9644,28.9644,28.9644,28.9644,	STDA	15
	& 28.9644,28.9644,28.9522,28.889,28.783,28.620,28.395,28.104,	STDA	16
	& 27.765,27.521,27.268,27.020,26.680,26.205,25.803,25.436,25.087,	STDA	17
	& 24.749, 24.422, 24.103, 23.792, 23.488, 23.192, 22.902,	STDA	18
	& 22.342, 21.809, 20.825, 19.952, 18.688, 17.726, 16.735,	STDA	19
	& 15.984, 15.247, 14.330, 13.092, 11.505, 9.718, 7.998,	STDA	20
	& 6.579, 5.543, 4.849, 4.404, 4.122, 3.940/	STDA	21
	DATA (PS(I),I=1,49)/1013.25, 226.32, 54.7487, 8.68014, 1.10905,	STDA	22
	& .66938, .039564, 3.7338E-3, 1.5381E-3, 9.0560E-4, 5.3571E-4,	STDA	23

& 3.2011E-4, 1.9742E-4, 1.2454E-4, 9.3188E-5, 7.1042E-5, 5.5547E-5,	STDA	24
& 4.0096E-5, 2.5382E-5, 1.7354E-5, 1.25054E-5, 9.3568E-6,	STDA	25
& 7.2028E-6, 5.6691E-6, 4.5422E-6, 3.6930E-6, 3.0395E-6,	STDA	26
& 2.5278E-6, 2.1210E-6, 1.5271E-6, 1.1266E-6, 6.4756E-7,	STDA	27
& 3.9276E-7, 1.7874E-7, 8.7704E-8, 3.4498E-8, 1.4518E-8,	STDA	28
& 6.4468E-9, 3.0236E-9, 1.5137E-9, 8.2130E-10, 4.8865E-10,	STDA	29
& 3.1908E-10, 2.2599E-10, 1.7036E-10, 1.3415E-10, 1.0873E-10,	STDA	30
& 8.9816E-11, 7.5138E-11/	STDA	31
IF(Z.LT.O.) GO TO 81	STDA	32
RO=6356.766	STDA	33
GO=9.80665	STDA	34
WMO=28.9644	STDA	35
RS=8314.32	STDA	36
ZM=Z*1000.	STDA	37
ROM=RO*1000.	STDA	38
IF(Z.GE.86.) GO TO 6	STDA	39
DO 3 I=1,7	STDA	40
IF(ZS(I).LE.Z.AND.Z.LT.ZS(I+1)) GO TO 5	STDA	41
3 CONTINUE	STDA	42
5 ZL=RO*ZS(I)/(RO+ZS(I))	STDA	43
ZU=RO*ZS(I+1)/(RO+ZS(I+1))	STDA	44
ZLM=ZL*1000.	STDA	45
ZUM=ZU*1000.	STDA	46
WM=WMO	STDA	47
HT=(RO*Z)/(RO+Z)	STDA	48
HM=HT*1000.	STDA	49
G=(TMS(I+1)-TMS(I))/(ZU-ZL)	STDA	50
GM=G*.001	STDA	51
IF(G.LT.O..OR.G.GT.O.) GO TO 12	STDA	52
P=PS(I)*EXP(-(GO*WMO*(HM-ZLM))/(RS*TMS(I)))*100.	STDA	53
GO TO 13	STDA	54
12 P=PS(I)*((TMS(I)/(TMS(I)+G*(HT-ZL)))*((GO*WMO)/(RS*GM)))*100.	STDA	55
13 T=TMS(I)+G*(HT-ZL)	STDA	56
GO TO 25	STDA	57
6 DO 7 I=8,48	STDA	58
IF(ZS(I).LE.Z.AND.Z.LT.ZS(I+1)) GO TO 8	STDA	59
7 CONTINUE	STDA	60
I=48	STDA	61
IF(Z.LE.1000.)GO TO 8	STDA	62
81 T=O.	STDA	63
P=O.	STDA	64
D=O.	STDA	65
RETURN	STDA	66
8 IF(I.NE.8)GOTO 31	STDA	67
T = TMS(9)	STDA	68
GOTO 39	STDA	69
31 IF(I.LT.16.OR.I.GE.19)GOTO 32	STDA	70
T = 240. + 12.0*(Z-110.0)	STDA	71
GO TO 39	STDA	72
32 IF(I.GE.19)GOTO 33	STDA	73
T = 263.1905 - 76.3232*SQRT(1. - ((Z-91.)/19.9429)**2)	STDA	74
GOTO 39	STDA	75
33 XI = (Z-120.)*(RO + 120.)/(RO + Z)	STDA	76
T = 1000. - 640.*EXP(-0.01875*XI)	STDA	77

39	J = I	STDA	78
	IF(I.EQ.48)J = I - 1	STDA	79
	ZO = ZS(J)	STDA	80
	Z1 = ZS(J+1)	STDA	81
	Z2 = ZS(J+2)	STDA	82
	WMA=WMS(J)*(Z-Z1)*(Z-Z2)/((ZO-Z1)*(ZO-Z2)) + WMS(J+1)*(Z-ZO)	STDA	83
	& *(Z-Z2)/((Z1-ZO)*(Z1-Z2)) + WMS(J+2)*(Z-ZO)*(Z-Z1)/	STDA	84
	& ((Z2-ZO)*(Z2-Z1))	STDA	85
	ALPO = ALOG(PS(J))	STDA	86
	ALP1 = ALOG(PS(J+1))	STDA	87
	ALP2 = ALOG(PS(J+2))	STDA	88
	ALPA = ALPO*(Z-Z1)*(Z-Z2)/((ZO-Z1)*(ZO-Z2)) + ALP1*(Z-ZO)	STDA	89
	& *(Z-Z2)/((Z1-ZO)*(Z1-Z2)) + ALP2*(Z-ZO)*(Z-Z1)/	STDA	90
	& ((Z2-ZO)*(Z2-Z1))	STDA	91
	ALPB = ALPA	STDA	92
	WMB = WMA	STDA	93
	IF(I.EQ.8.OR.I.EQ.48)GOTO 24	STDA	94
	J = J - 1	STDA	95
	ZO = ZS(J)	STDA	96
	Z1 = ZS(J+1)	STDA	97
	Z2 = ZS(J+2)	STDA	98
	ALPO = ALOG(PS(J))	STDA	99
	ALP1 = ALOG(PS(J+1))	STDA	100
	ALP2 = ALOG(PS(J+2))	STDA	101
	ALPB = ALPO*(Z-Z1)*(Z-Z2)/((ZO-Z1)*(ZO-Z2)) + ALP1*(Z-ZO)	STDA	102
	& *(Z-Z2)/((Z1-ZO)*(Z1-Z2)) + ALP2*(Z-ZO)*(Z-Z1)/	STDA	103
	& ((Z2-ZO)*(Z2-Z1))	STDA	104
	WMB=WMS(J)*(Z-Z1)*(Z-Z2)/((ZO-Z1)*(ZO-Z2)) + WMS(J+1)*(Z-ZO)	STDA	105
	& *(Z-Z2)/((Z1-ZO)*(Z1-Z2)) + WMS(J+2)*(Z-ZO)*(Z-Z1)/	STDA	106
	& ((Z2-ZO)*(Z2-Z1))	STDA	107
24	P= 100.*EXP((ALPA+ALPB)/2.)	STDA	108
	WM = (WMA+WMB)/2.	STDA	109
25	D=(WM*P)/(RS*T)	STDA	110
26	RETURN	STDA	111
	END	STDA	112
	FUNCTION TEMP (ALT , TX , T1 , T3 , T4 , A2)	TEMP	1
		TEMP	2
C*****		TEMP	3
C**		**TEMP	4
C**	'TEMP' CALCULATES THE TEMPERATURE AT ALTITUDE ALT USING EQUATION	**TEMP	5
C**	(10) FOR ALTITUDES BETWEEN 90 AND 125 KM AND EQUATION (13)	**TEMP	6
C**	FOR ALTITUDES GREATER THAN 125 KM , FROM SAO REPORT 313.	**TEMP	7
C**		**TEMP	8
C*****		TEMP	9
	PARAMETER (BB = 4.5E-6)	TEMP	10
		TEMP	11
	U = ALT - 125.	TEMP	12
	IF (U .GT. 0.) THEN	TEMP	13
	TEMP = TX+A2*ATAN(T1*U*(1.+BB*(U**2.5))/A2)	TEMP	14
	ELSE	TEMP	15
	TEMP = TX + T1 * U + T3 * (U**3) + T4 * (U**4)	TEMP	16
	END IF	TEMP	17
		TEMP	18
		TEMP	19

END	TEMP	20
SUBROUTINE TINF(F10,F10B,GI,XLAT,SDA,SHA,DY,I1,TE)	TINF	1
	TINF	2
C*****	TINF	3
C** SUBROUTINE 'TINF' CALCULATES THE EXOSPHERIC TEMPERATURE ACCORDING	**TINF	4
C** TO L. JACCHIA SAO 313, 1970	**TINF	5
C**	**TINF	6
C** F10 = SOLAR RADIO NOISE FLUX (X E-22 WATTS / M2)	**TINF	7
C** F10B= 162-DAY AVERAGE F10	**TINF	8
C** GI = GEOMAGNETIC ACTIVITY INDEX	**TINF	9
C** XLAT= GEOGRAPHIC LATITUDE AT PERIGEE (IN RAD)	**TINF	10
C** SDA = SOLAR DECLINATION ANGLE (IN RAD)	**TINF	11
C** SHA = SOLAR HOUR ANGLE	**TINF	12
C** DY = D / Y (DAY NUMBER / TROPICAL YEAR) ; 1	**TINF	13
C** I1 = GEOMAGNETIC EQUATION INDEX (1--GI=KP , 2--GI=AP)	**TINF	14
C** RE = DIURNAL FACTOR KP, F10B, AVG	**TINF	15
C**	**TINF	16
C** CONSTANTS -- C = SOLAR ACTIVITY VARIATION	**TINF	17
C** -- BETA , ETC = DIURNAL VARIATION	**TINF	18
C** -- D = GEOMAGNETIC VARIATION	**TINF	19
C** -- E = SEMIANNUAL VARIATION	**TINF	20
C**	**TINF	21
C*****	TINF	22
	TINF	23
PARAMETER (PI = 3.14159265 , TPI = 6.28318531)	TINF	24
PARAMETER (XM = 2.5 , XNN = 3.0)	TINF	25
C	TINF	26
C** CI ARE SOLAR ACTIVITY VARIATION VARIABLES	TINF	27
C	TINF	28
PARAMETER (C1 = 383.0 , C2 = 3.32 , C3 = 1.80)	TINF	29
C	TINF	30
C** DI ARE GEOMAGNETIC VARIATION VARIABLES	TINF	31
C	TINF	32
PARAMETER (D1=28.0,D2=0.03,D3=1.0,D4=100.0,D5 = -0.08)	TINF	33
C	TINF	34
C** EI ARE SEMIANNUAL VARIATION VARIABLES	TINF	35
C	TINF	36
PARAMETER (E1=2.41,E2=0.349,E3=0.206,E4=6.2831853)	TINF	37
PARAMETER (E5=3.9531708,E6=12.5663706,E7=4.3214352)	TINF	38
PARAMETER (E8 = 0.1145 , E9 = 0.5 , E10 = 6.2831853)	TINF	39
PARAMETER (E11 = 5.9742620 , E12 = 2.16)	TINF	40
	TINF	41
PARAMETER (BETA=-0.6457718,GAMMA=0.7504916,P=0.1047198)	TINF	42
PARAMETER (RE = 0.31)	TINF	43
C	TINF	44
C** SOLAR ACTIVITY VARIATION	TINF	45
C	TINF	46
TC = C1 + C2 * F10B + C3 * (F10 - F10B)	TINF	47
C	TINF	48
C** DIURNAL VARIATION	TINF	49
C	TINF	50
ETA = 0.5 * ABS (XLAT - SDA)	TINF	51
THETA = 0.5 * ABS (XLAT + SDA)	TINF	52
TAU = SHA + BETA + P * SIN (SHA + GAMMA)	TINF	53

IF (TAU. GT. PI) TAU = TAU - TPI	TINF 54
IF (TAU. LT. -PI) TAU = TAU + TPI	TINF 55
	TINF 56
	TINF 57
A1 = (SIN (THETA))**XM	TINF 58
A2 = (COS (ETA))**XM	TINF 59
A3 = (COS (TAU / 2.))**XNN	TINF 60
B1 = 1.0 + RE * A1	TINF 61
B2 = (A2 - A1) / B1	TINF 62
TV = B1 * (1. + RE * B2 * A3)	TINF 63
TL = TC * TV	TINF 64
C	TINF 65
C** GEOMAGNETIC VARIATION	TINF 66
C	TINF 67
IF (I1.EQ.1) THEN	TINF 68
TG = D1 * GI + D2 * EXP(GI)	TINF 69
ELSE	TINF 70
TG = D3 * GI + D4 * (1 - EXP (D5 * GI))	TINF 71
END IF	TINF 72
C	TINF 73
C** SEMIANNUAL VARIATION	TINF 74
C	TINF 75
G3 = 0.5 * (1.0 + SIN (E10 * DY + E11))	TINF 76
G3 = G3 ** E12	TINF 77
TAU1 = DY + E8 * (G3 - E9)	TINF 78
G1 = E2 + E3 * (SIN (E4 * TAU1 + E5))	TINF 79
G2 = SIN (E6 * TAU1 + E7)	TINF 80
TS = E1 + F10B * G1 * G2	TINF 81
C	TINF 82
C** EXOSPHERIC TEMPERATURE	TINF 83
C	TINF 84
TE = TL + TG + TS	TINF 85
	TINF 86
RETURN	TINF 87
END	TINF 88
SUBROUTINE TME (MN , IDA , IYR , IHR , MIN , XLAT , XLNG ,	TME 1
SDA , SHA , DD , DY)	TME 2
	TME 3
C*****	TME 4
C** 'TME' PERFORMS THE CALCULATIONS OF THE SOLAR DECLINATION	**TME 5
C** ANGLE AND SOLAR HOUR ANGLE.	**TME 6
C**	**TME 7
C** INPUTS: MN = MONTH	**TME 8
C** IDA = DAY	**TME 9
C** IYR = YEAR	**TME 10
C** IHR = HOUR	**TME 11
C** MIN = MINUTE	**TME 12
C** XLAT= LATITUDE (INPUT-GEOCENTRIC LATITUDE)	**TME 13
C** XLNG= LONGITUDE (INPUT-GEOCENTRIC LONGITUDE, -180,+180)	**TME 14
C**	**TME 15
C** OUTPUTS: SDA = SOLAR DECLINATION ANGLE (RAD)	**TME 16
C** SHA = SOLAR HOUR ANGLE (RAD)	**TME 17
C** DD = DAY NUMBER FROM 1 JAN.	**TME 18
C** DY = DD / TROPICAL YEAR	**TME 19

C*****	TME	20
PARAMETER (YEAR = 365.2422)	TME	21
PARAMETER (A1 = 99.6909833 , A2 = 36000.76892)	TME	22
PARAMETER (A3 = 0.00038708 , A4 = 0.250684477)	TME	23
PARAMETER (B1 = 0.0172028 , B2 = 0.0335 , B3 = 1.407)	TME	24
PARAMETER (PI = 3.14159265 , TPI = 6.28318531)	TME	25
PARAMETER (PI2 = 1.57079633 , PI32 = 4.71238898)	TME	26
PARAMETER (PI180 = 0.017453293)	TME	27
	TME	28
DIMENSION IDAY(12)	TME	29
	TME	30
DATA IDAY / 31,28,31 ,30,31,30 ,31,31,30 ,31,30,31 /	TME	31
	TME	32
XLAT = XLAT / 57.29577951	TME	33
YR = IYR	TME	34
	TME	35
IF (MOD(IYR,4) .EQ. 0) THEN	TME	36
IF (MOD(IYR,100) .NE. 0) IDAY(2) = 29	TME	37
ELSE	TME	38
IDAY(2) = 28	TME	39
END IF	TME	40
ID = 0	TME	41
IF (MN. GT. 1) THEN	TME	42
DO 20 I = 1 , MN-1	TME	43
ID = ID + IDAY(I)	TME	44
20 CONTINUE	TME	45
END IF	TME	46
ID = ID + IDA	TME	47
DD = ID	TME	48
DY = DD/YEAR	TME	49
C	TME	50
C** COMPUTE MEAN JULIAN DATE	TME	51
C	TME	52
XMJD = 2415020. + 365. * (YR - 1900.) + DD	TME	53
+ FLOAT ((IYR - 1901) / 4)	TME	54
C	TME	55
C** COMPUTE GREENWICH MEAN TIME IN MINUTES GMT	TME	56
C	TME	57
XHR = IHR	TME	58
XMIN = MIN	TME	59
GMT = 60 * XHR + XMIN	TME	60
FMJD = XMJD - 2435839. + GMT / 1440.	TME	61
C	TME	62
C** COMPUTE GREENWICH MEAN POSITION - GP (IN RAD)	TME	63
C	TME	64
XJ = (XMJD - 2415020.5) / (36525.0)	TME	65
GP = AMOD (A1 + A2 * XJ + A3 * XJ * XJ + A4 * GMT , 360.)	TME	66
	TME	67
C	TME	68
C** COMPUTE RIGHT ASCENSION POINT - RAP (IN RAD)	TME	69
C	TME	70
C** 1ST CONVERT GEOCENTRIC LONGITUDE TO DEG LONGITUDE - WEST , + EAST	TME	71
C	TME	72
IF (XLNG .GT. 180.) XLNG = XLNG - 360.	TME	73

RAP = AMOD (GP + XLNG , 360.)	TME 74
C	TME 75
C** COMPUTE CELESTIAL LONGITUDE - XLS (IN RAD) - - ZERO TO 2PI	TME 76
C	TME 77
Y1 = B1 * FMJD	TME 78
Y2 = 0.017202 * (FMJD - 3.)	TME 79
XLS = AMOD (Y1 + B2 * SIN(Y2) - B3 , TPI)	TME 80
C	TME 81
C** COMPUTE SOLAR DECLINATION ANGLE - SDA (IN RAD)	TME 82
C	TME 83
B4 = PI180 * (23.4523 - 0.013 * XJ)	TME 84
SDA = ASIN (SIN (XLS) * SIN (B4))	TME 85
C	TME 86
C** COMPUTE RIGHT ASCENSION OF SUN - RAS (IN RAD) - - ZERO TO 2PI	TME 87
C	TME 88
ARG = TAN (SDA) / TAN (B4)	TME 89
IF (ARG .GT. 1.0) ARG = 1.0	TME 90
IF (ARG .LT. -1.) ARG = -1.0	TME 91
RAS = ASIN (ARG)	TME 92
C	TME 93
C** PUT RAS IN SAME QUADRANT AS XLS	TME 94
C	TME 95
RAS = ABS (RAS)	TME 96
TEMP = ABS (XLS)	TME 97
IF (TEMP.LE.PI .AND. TEMP.GT.PI2) THEN	TME 98
RAS = PI - RAS	TME 99
ELSE IF (TEMP.LE.PI32 .AND. TEMP.GT.PI) THEN	TME 100
RAS = PI + RAS	TME 101
ELSE IF (TEMP.GT.PI32) THEN	TME 102
RAS = TPI - RAS	TME 103
END IF	TME 104
IF (XLS .LT. 0.) RAS = -RAS	TME 105
C	TME 106
C** COMPUTE SOLAR HOUR ANGLE - SHA (IN RAD) - -	TME 107
C	TME 108
SHA = RAP * PI180 - RAS	TME 109
IF (SHA.GT.PI) SHA = SHA - TPI	TME 110
IF (SHA.LT.-PI) SHA = SHA + TPI	TME 111
	TME 112
	TME 113
RETURN	TME 114
END	TME 115
SUBROUTINE WIND	TME 116
COMMON/WINCOM/RHO,FCORY,DX5,DY5,PX,PY,U,V,T,TX,TY,	TME 117
\$ DU,DV,P,UPRE,VPRE,DUPRE,DVPRE	TME 118
COMMON/IOTEMP/DUM1(6),PHI,DUM2(11),MN,DM2A(5),G,R,H,PHIR,	TME 119
& THETR,DUM3(15),FLAT,DUMMY(18)	WIND 1
COMMON/CHIC/DUM(18),IWSYM,USH,VSH,DUSH,DVSH	WIND 2
ABSPHI = ABS(PHIR)	WIND 3
BETA = 1.458E-6	WIND 4
	WIND 5
	WIND 6
	WIND 7
	WIND 8

SVAL = 110.4	WIND 9
SHZ1=25.	WIND 10
SHZ2=120.	WIND 11
IF (ABSPHI.LT.O.017453293*FLAT)GO TO 40	WIND 12
IF (RHO.GT.O.O.AND.T.GT.O.O.AND.ABS(FCORY).GT.O.)GO TO 20	WIND 13
IF (RHO.GT.O.O.AND.ABSPHI .GT.O.) GO TO 20	WIND 14
U = 0.	WIND 16
V = 0.	WIND 16
DU=0.	WIND 17
DV=0.	WIND 18
IF (ABS(FCORY).LE.O.)GO TO 31	WIND 19
RETURN	WIND 20
20 FCORX = FCORY*DX5/DY5	WIND 21
IF (H.GE.90.)GOTO 25	WIND 22
U = - PY/(FCORY*RHO)	WIND 23
V = PX/(FCORX*RHO)	WIND 24
DU = -(G*TY)/(FCORY*T)	WIND 25
DV = (G*TX)/(FCORX*T)	WIND 26
GO TO 31	WIND 27
25 VISC = BETA*(T**1.5)/(T+SVAL)	WIND 28
VLS = 5.3 + 0.0622*(H**1.5)	WIND 29
IF (VLS.GT.H)VLS = H	WIND 30
VISCFAC = VISC/(1.0E6*RHO*VLS**2)	WIND 31
CORIOL = FCORY/DY5	WIND 32
DPDX = PX/(DX5*RHO)	WIND 33
DPDY = PY/(DY5*RHO)	WIND 34
DENOM = CORIOL**2 + VISCFAC**2	WIND 35
U = (-CORIOL*DPDY - VISCFAC*DPDX)/DENOM	WIND 36
V = (CORIOL*DPDX - VISCFAC*DPDY)/DENOM	WIND 37
DTDX = G*TX/(DX5*T)	WIND 38
DTDY = G*TY/(DY5*T)	WIND 39
DU = (-CORIOL*DTDY - VISCFAC*DTDX)/DENOM	WIND 40
DV = (CORIOL*DTDX - VISCFAC*DTDY)/DENOM	WIND 41
31 IF (H.GT.SHZ1.AND.H.LT.SHZ2)GOTO 99	WIND 42
IF (ABSPHI.GE.O.017453293*FLAT)RETURN	WIND 43
40 CONTINUE	WIND 44
U=UPRE	WIND 45
V=VPRE	WIND 46
DU=DUPRE	WIND 47
DV=DVPRE	WIND 48
IF (H.GT.SHZ1.AND.H.LT.SHZ2)GO TO 99	WIND 49
RETURN	WIND 50
99 IH=INT(H)	WIND 51
IF (IH.LT.SHZ1+5) GOTO 130	WIND 52
IF (IH.GE.SHZ2-30)GOTO 140	WIND 53
U=USH	WIND 54
V=VSH	WIND 55
DU=DUSH	WIND 56
DV=DVSH	WIND 57
RETURN	WIND 58
C...LOW ALTITUDE FAIRING	WIND 59
130 FACS=(H-SHZ1)/5.	WIND 60
FACG=1.-FACS	WIND 61
U=FACG*U+FACS*USH	WIND 62

```

      V=FACG*V+FACS*VSH
      DU=FACG*DU+FACS*DUSH
      DV=FACG*DV+FACS*DVSH
      RETURN
C...HIGH ALTITUDE FAIRING
140  FACS=(H+30.-SHZ2)/30.
      FACG=1.-FACS
      U=FACS*U+FACG*USH
      V=FACS*V+FACG*VSH
      DU=FACS*DU+FACG*DUSH
      DV=FACS*DV+FACG*DVSH
      RETURN
      END

```

```

WIND 63
WIND 64
WIND 65
WIND 66
WIND 67
WIND 68
WIND 69
WIND 70
WIND 71
WIND 72
WIND 73
WIND 74
WIND 75

```

2. JCL CODE

The following is a sample listing of the Job Control Language (JCL) code needed to run the GRAM-90 on MSFC's IBM 3090 computer.

```
//CWEJ412T JOB (6E5551500466), 'JEFFRIES/5449136',
// MSGLEVEL=1,MSGCLASS=X,CLASS=A,REGION=2048K
//*JOBPARM F=9700,R=412
//GRM90TST EXEC VSF2CLG.FVLNSPC='3200.(200,50)',
//      PARM.FORT='SDUMP(ISN)'
//-----
//* THIS RUN STREAM WILL COMPILE THE VS FORTRAN SOURCE PROGRAM
//* WHICH IS MEMBER GRAM90 IN THE CATALOGED PARTITIONED DATA SET
//* CWEJ412.ATMOSMDL.FORT - A VERSION OF THE GRAM.
//*
//* LAST MOD: 10 SEP 1990
//*-----
//FORT.SYSIN DD DSN=CWEJ412.ATMOSMDL.FORT(GRAM90),DISP=SHR
//*
//* INPUT UNIT FOR DATA LINES(SEE INPUT DATA BELOW).
//*
//GO.FTO5FOO1 DD DDNAME=SYSIN
//*
//* OUTPUT PRINT UNIT.
//*
//GO.FTO6FOO1 DD SYSOUT=X
//*
//* OUTPUT DATA SET. IF USED, IT WILL STORE THE RAW OUTPUT DATA
//* IN THE CHOSEN DATA SET FOR FUTURE PLOTTING/OTHER HANDLING.
//* CHANGE AS REQUIRED.
//*
//*O.FTO7FOO1 DD DSN=CWEJ412.PLOT.DATA(GRM90TST),DISP=SHR
//*O.FTO7FOO1 DD DSN=CWEJ412.STSMET.DATA(G8STS28A),DISP=SHR
//*
//* INPUT DATA SETS(1 SCIDAT AND 1 4-D SETS):
//*
//* DSN CWEJ412.GRAMOD90.DATA(SCIDAT9) INPUTS SCIDAT DATA.
//*
//GO.FTO3FOO1 DD DSN=CWEJ412.GRAMOD90.DATA(SCIDAT9),DISP=SHR
//*
//* DSN CWEJ412.GRAMOD90.DAT4DXX, A SERIES OF DIRECT ACCESS (DA) FILES.
//* INPUTS 4D DATA, WHERE XX IS THE NUMBER OF THE DESIRED MONTH.
//* CHANGE THE DSN NAME XX AS DESIRED (OR IN ACCORDANCE WITH AN
//* ALTERNATE DA FILE NAME):
//* JAN,FEB,MAR,APR,MAY,JUN,JUL,AUG,SEP,OCT,NOV,DEC.
//* 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12.
//* BUT THE FOLLOWING "GO" NAME MUST BE COMPATIBLE WITH THE "OPEN"
//* STATEMENT FILE NAME IN THE FORTRAN PROGRAM.
//*
//GO.DAT4D09 DD DSN=CWEJ412.GRAMOD90.DAT4D09.
//      DCB=(RECFM=F,DSORG=DA,LRECL=1269),DISP=SHR
//*
//* THE FOLLOWING UNITS ARE ASSIGNED TO INTERNAL SCRATCH FILES.
//* LRECL OF 852 = 213 (SIZE, I.E. NUMBER OF WORDS, ALLOCATED FOR INPUT
//* FILE IN SUBROUTINE GRID4D) X 4 (BYTES/WORD), AND BLKSIZE = LRECL
//* X 10.
//*
//GO.FT12FOO1 DD UNIT=SYSDA,SPACE=(TRK,(20,20)),
//      DCB=(RECFM=FB,LRECL=852,BLKSIZE=8520)
```



```

//GO.FT13FOO1 DD UNIT=SYSDA,SPACE=(TRK,(20,20)),
//   DCB=(RECFM=FB,LRECL=852,BLKSIZE=8520)
//*
//* INPUT DATA:
//*   LINE 1: INITIAL ALT(KM),INITIAL LAT,INITIAL WEST LON,
//*           F10.7,MEAN F10.7,AP,MONTH,DAY,YR(2 DIGITS),
//*           HR(24 HR CLOCK),MIN,SEC,LAT INCREMENT,W. LON
//*           INCREMENT,ALT INCREMENT,MAX # POSITIONS,TIME
//*           INCREMENT,TRAJECTORY OPTION,OUTPUT OPTION(SHOULD
//*           EQUAL 7 IF ACTIVATED), MIN GEOSTROPHIC LAT.
//*           NOTE: FOR STS SUPPORT:
//*               INIT ALT=122.8 KM (403K FT)
//*               ALT INCR=.9 KM (3K FT)
//*               MAX # POS=138 (TO SFC)
//*           USUALLY IN AN OPERATIONAL SITUATION, THE ONLY
//*           DATA ITEMS WHICH NEED TO BE CHANGED ARE THE:
//*           F10.7,MEAN F10.7,AP,MONTH,DAY,YR,HR, AND MIN.
//*   LINE 2: INPUT UNITS FOR DATA FROM SCIDAT (NMC,GROVES/STA PERT,
//*           RANDOM,P/PW/CS/CL,QBO,SP),4D,RANDOM OPTION,QBO
//*           OPTION,FIRST RANDOM #,4D/P/D/T SCRATCH UNIT,
//*           NMC SCRATCH UNIT, AND DIAGNOSTIC OUTPUT SWITCH, IPRT
//*           (0 ACTIVATES OUTPUT, 1 DE-ACTIVATES IT), ALSO
//*           NLIMIT(MAX NUMBER OF TEST VIOLATIONS IN 4D DATA - 12
//*           TO 25).
//*   LINE 3: INITIAL PL,PS,DL,DS,TL,TS,UL,US,VL,VS,RANDOM
//*           PERT SCALING FACTOR--INCLUDE ONLY IF RANDOM
//*           OPTION=1(IF 2, RANDOM PERT NOT COMPUTED - SAME
//*           FOR QBO OPTION).
//*   LINES 4 OR MORE: ONLY REQUIRED IF TRAJECTORY OPTION .NE.
//*                   ZERO. EACH LINE HAS TIME(SEC),ALT(KM),LAT,W.LON.
//*                   LAST LINE HAS ANY NEGATIVE ALTITUDE VALUE.
//*
//GO.SYSIN DD *
600.0,28.45,80.53,150.,150.,15.,9,1,89,00.00,0, 0., 0.,20.,31,0,0,0,18.,
 3, 4, 1, 1, 1,12,13,1,12,
0.,0.,0.,0.,0.,0.,0.,0.,0.,0.,1,0,
/*
//

```

3. OUTPUT

The following is the sample output, from MSFC's IBM 3090 computer, resulting from the input submitted through the foregoing JCL listing. As in a similar example listed in Volume I (Justus et al. 1990), the first 18 lines merely repeat the input data for ease in comparison and reference.

***** GLOBAL REFERENCE ATMOSPHERIC MODEL - 1990 (GRAM90) *****

INITIAL HEIGHT = 600.00 KM
 F10.7 = 150.00
 DATE = 9/ 1/89
 LAT INCREMENT = 0.00 DEG
 MAXIMUM NUMBER OF POSITIONS = 31
 TRAJECTORY OPTION = 0
 SCIDAT INPUT UNIT = 3
 RANDOM OPTION = 1
 FIRST RANDOM NUMBER = 1
 4-D P.D.T DATA SCRATCH UNIT = 12
 NMC GRID POINTS SCRATCH UNIT = 13
 JULIAN DATE = 2447771.0
 INITIAL P.D.T = 0.00 %
 INITIAL U,V = 0.00 M/S
 INITIAL P.D.T = 0.00 %
 INITIAL U,V = 0.00 M/S
 INITIAL UDL,VDL = -9.89 % -19.16 %
 SIGMA P.D.T = 2.11 %
 SIGMA U,V = 48.26 M/S
 SIGMA P.D.T = 5.72 %
 SIGMA U,V = 52.60 M/S
 INITIAL UDS,VDS = -11.46 % -9.84 %
 INITIAL WEST LON = 80.53 DEG
 AP = 15.00
 HEIGHT INCREMENT = 20.00 KM
 MIN GEOSTROPH LAT = 18.0
 4-D INPUT UNIT = 4
 OBO OPTION = 1
 INITIAL LAT = 28.45 DEG
 MEAN F10.7 = 150.00
 GREENWICH TIME = 0: 0: 0
 WEST LON INCREMENT = 0.00 DEG
 TIME INCREMENT = 0 SEC
 OUTPUT OPTION = 0
 SIGMA P.D.T = 1.34 %
 SIGMA U,V = 49.55 M/S
 SIGMA P.D.T = 5.03 %
 SIGMA U,V = 54.01 M/S
 INITIAL UDL,VDL = -11.46 % -9.84 %
 4-D DIAGNOSTICS PRINT OPTION = 1
 RANDOM PERTURBATION SCALING FACTOR = 1.000
 MAX. NUMBER OF 4-D TEST VIOLATIONS = 12

** PERCENT DEVIATIONS FROM 1976 US STANDARD ATMOSPHERE APPEAR BELOW PRESSURE, DENSITY AND TEMPERATURE VALUES **

HEIGHT (KM)	LAT (DEG)	WEST LON (DEG)	UNPERTURBED (MONTHLY MEAN)				MEAN PLUS PERTURBATIONS				THERMAL		PERTURBATION VALUES				
			PRES. (NT/ M**2)	DENS. (KG/ M**3)	TEMP (DEG KEL- VIN)	MEAN WIND (M/S)	PRES. (NT/ M**2)	DENS. (KG/ M**3)	TEMP (DEG KEL- VIN)	TOTAL WIND (M/S)	E-W N-S VERT.	WIND SHEAR (M/S/KM)	P	D	T	U	V
580.00	28.45	80.530	181E-060.277E-12	1084.	163.	-9.0.173E-060.285E-12	1002.	183.	142.	0.3	0.0	0.0	0.0	0.0	0.0	0.0	12.06
0			74.0%	82.0%	8.4%	0.88E+00	66.2%	87.7%	0.2%	-0.76			0.0	0.0	0.0	0.0	0.0
560.00	28.45	80.530	234E-060.369E-12	1084.	193.	-18.0.229E-060.380E-12	1026.	195.	29.	0.4	0.0	0.0	0.0	0.0	0.0	0.0	12.06
0			75.8%	80.2%	8.4%	0.10E+01	71.8%	85.8%	2.6%	17.67			0.0	0.0	0.0	0.0	0.0
													0.0	0.0	0.0	0.0	0.0
													0.0	0.0	0.0	0.0	0.0
													-0.7	4.7	-5.3	23.	30.
													5.7	5.0	6.7	57.	67.
													-2.2	-1.4	-0.8	-43.	50.
													2.1	1.3	1.8	53.	62.
													-4.5	3.1	-7.6	20.	151.
													6.1	5.2	6.9	78.	91.
																	SIGT
540.00	28.45	80.530	305E-060.494E-12	1083.	227.	-31.0.292E-060.522E-12	976.	197.	19.	0.5	-0.1	0.0	0.0	0.0	0.0	0.0	12.06
0			76.6%	77.9%	8.4%	0.11E+01	68.9%	87.7%	-2.3%	-1.62			0.0	0.0	0.0	0.0	0.0
													0.0	0.0	0.0	0.0	0.0

520.00	28.45	80.530.402E-060.656E-12	1083.	264.	-51.0.398E-060.701E-12	1014.	244.	9.	0.6	-0.1	0.0	0.0	0.0	0.	0.	MAG	12.06
0		76.8%	75.4%	8.4%	0.13E+01	75.0%	84.8%	1.89			0.0	0.0	0.0	0.	0.	SP	
											0.0	0.0	0.0	0.	0.	QBO	
											0.0	0.0	0.0	0.	0.	MAG	
											-1.4	6.1	-7.5	-13.	35.	RANS	
											5.7	5.0	6.7	22.	15.	SIGS	
											0.4	-0.8	1.2	-7.	25.	RANL	
											2.1	1.3	1.8	20.	14.	SIGL	
											-1.0	5.4	-6.4	-20.	60.	RANT	
											6.1	5.2	6.9	30.	21.	SIGT	
500.00	28.45	80.530.532E-060.900E-12	1083.	304.	-80.0.591E-060.898E-12	1204.	266.	-65.	0.8	-0.2	0.0	0.0	0.0	0.	0.	SP	12.06
0		76.1%	72.6%	8.4%	0.14E+01	95.4%	20.46				0.0	0.0	0.0	0.	0.	QBO	
											0.0	0.0	0.0	0.	0.	MAG	
											9.0	-1.0	10.0	-34.	6.	RANS	
											5.7	5.0	6.7	18.	11.	SIGS	
											2.0	0.8	1.2	-5.	9.	RANL	
											2.1	1.3	1.8	16.	10.	SIGL	
											11.0	-0.2	11.2	-39.	15.	RANT	
											6.1	5.2	6.9	24.	15.	SIGT	
480.00	28.45	80.530.711E-060.122E-11	1082.	343.	-120.0.753E-060.126E-11	1111.	284.	-103.	0.9	-0.3	0.0	0.0	0.0	0.	0.	SP	12.06
0		74.9%	69.9%	8.3%	0.15E+01	85.3%	12.18				0.0	0.0	0.0	0.	0.	QBO	
											0.0	0.0	0.0	0.	0.	MAG	
											3.8	1.8	2.0	-49.	3.	RANS	
											5.7	5.0	6.7	15.	10.	SIGS	
											2.1	1.5	0.6	-10.	14.	RANL	
											2.1	1.3	1.8	14.	9.	SIGL	
											5.9	3.3	2.6	-59.	17.	RANT	
											6.1	5.2	6.9	21.	13.	SIGT	
460.00	28.45	80.530.956E-060.168E-11	1082.	375.	-173.0.101E-050.174E-11	1102.	328.	-169.	1.1	-0.5	0.0	0.0	0.0	0.	0.	SP	12.06
0		73.4%	67.2%	8.3%	0.16E+01	83.8%	-21.71				0.0	0.0	0.0	0.	0.	QBO	
											0.0	0.0	0.0	0.	0.	MAG	
											5.2	3.0	2.2	-40.	5.	RANS	
											5.7	5.0	6.7	13.	7.	SIGS	
											0.8	1.1	-0.3	-7.	-1.	RANL	
											2.1	1.3	1.8	11.	6.	SIGL	
											6.0	4.1	1.9	-48.	4.	RANT	
											6.1	5.2	6.9	17.	9.	SIGT	
440.00	28.45	80.530.129E-050.231E-11	1081.	395.	-235.0.130E-050.244E-11	1027.	380.	-235.	1.2	-0.7	0.0	0.0	0.0	0.	0.	SP	12.06
0		71.5%	64.5%	8.3%	0.16E+01	72.8%	-24.78				0.0	0.0	0.0	0.	0.	QBO	
											0.0	0.0	0.0	0.	0.	MAG	
											-2.2	3.7	-5.9	-13.	5.	RANS	
											5.7	5.0	6.7	11.	6.	SIGS	
											3.0	2.0	0.9	-2.	-5.	RANL	
											2.1	1.3	1.8	10.	6.	SIGL	
											0.8	5.8	-5.0	-15.		RANT	

300.00	28.45	80.530.135E-040.282E-10 1059.	137. -413.0.142E-040.289E-10 1051.	134. -411. 0.8 -2.4	12.06	13.5 2.3 11.2 4. -2. RANS
0		53.8% 47.3% 8.5% 0.32E+00 61.6% 56.0% 7.6%		-11.26	0.0 0.0 0.0 0. 0. SP	5.7 5.0 6.7 3. 2. SIGS
					0.0 0.0 0.0 0. 0. QBO	1.4 1.1 0.3 -1. 1. RANL
					0.0 0.0 0.0 0. 0. MAG	2.1 1.3 1.8 3. 2. SIGL
					4.4 3.4 0.9 -2. -2. RANS	14.9 3.4 11.5 3. 0. RANT
					5.7 5.0 6.7 4. 3. SIGS	6.1 5.2 6.9 4. 2. SIGT
					0.7 2.5 -1.8 -1. 4. RANL	
					2.1 1.3 1.8 4. 2. SIGL	
					5.1 5.9 -0.8 -3. 2. RANT	
					6.1 5.2 6.9 5. 3. SIGT	
280.00	28.45	80.530.198E-040.430E-10 1050.	100. -375.0.199E-040.462E-10 976.	96. -362. 0.6 -2.4	12.06	0.0 0.0 0.0 0. 0. SP
0		51.3% 44.9% 8.7% 0.20E+00 51.9% 55.7% 1.0%		-8.51	0.0 0.0 0.0 0. 0. QBO	0.0 0.0 0.0 0. 0. MAG
					0.0 0.0 0.0 0. 0. RANS	0.3 6.0 -5.6 -6. 7. SIGS
					5.7 5.0 6.7 7. 7. SIGS	0.1 1.5 -1.4 2. 6. RANL
					2.1 1.3 1.8 6. 6. SIGL	2.1 1.3 1.8 6. 13. RANT
					0.4 7.5 -7.1 -4. 9. SIGT	6.1 5.2 6.9 9. 9. SIGT
260.00	28.45	80.530.296E-040.674E-10 1037.	72. -330.0.288E-040.702E-10 966.	73. -310. 0.5 -2.4	12.06	0.0 0.0 0.0 0. 0. SP
0		48.6% 42.1% 9.0% 0.12E+00 44.8% 48.2% 1.6%		-3.67	0.0 0.0 0.0 0. 0. QBO	0.0 0.0 0.0 0. 0. MAG
					0.0 0.0 0.0 0. 0. RANS	-3.0 3.2 -6.1 3. 10. RANS
					5.7 5.0 6.7 9. 9. SIGS	0.4 1.1 -0.7 -2. 10. RANL
					2.1 1.3 1.8 8. 8. SIGL	-2.6 4.2 -6.8 1. 20. RANT
					6.1 5.2 6.9 12. 12. SIGT	
240.00	28.45	80.530.452E-040.109E-09 1018.	51. -281.0.462E-040.114E-09 988.	55. -272. 0.4 -2.4	12.06	0.0 0.0 0.0 0. 0. SP
0		45.6% 38.6% 9.5% 0.68E-01 48.6% 45.6% 6.3%		-6.40	0.0 0.0 0.0 0. 0. QBO	0.0 0.0 0.0 0. 0. MAG
					1.3 3.4 -2.1 5. 1. RANS	5.7 5.0 6.7 6. 6. SIGS
					0.8 1.6 -0.8 -1. 8. RANL	2.1 1.3 1.8 5. 5. SIGL
					2.1 5.0 -2.9 4. 9. RANT	6.1 5.2 6.9 8. 8. SIGT
220.00	28.45	80.530.713E-040.184E-09 990.	36. -229.0.706E-040.195E-09 917.	37. -230. 0.4 -2.3	12.06	0.0 0.0 0.0 0. 0. SP
0		42.1% 34.3% 10.1% 0.36E-01 40.8% 43.0% 2.0%		-24.88	0.0 0.0 0.0 0. 0. QBO	0.0 0.0 0.0 0. 0. MAG
					-0.5 5.1 -5.7 0. -2. RANS	5.7 5.0 6.7 3. 3. SIGS
					-0.3 1.3 -1.7 1. 1. RANL	2.1 1.3 1.8 3. 3. SIGL
					-0.9 6.5 -7.4 1. -1. RANT	6.1 5.2 6.9 4. -1. SIGT

80.00	28.45	80.530.109E+010.186E-04	203.	8.	-4.0.101E+010.183E-04	193.	9.	-1.	-0.3	-0.2	7.0	12.0	5.9	40.	33.	SIGS
0		3.2% 0.7% 2.4% 0.38E-03			-3.6% -0.6% -2.9%			-0.66			-6.5	-5.9	-0.7	-18.	9.	RANL
											11.2	9.7	4.7	54.	46.	STGL
											-1.3	1.0	-2.2	-51.	75.	RANT
											13.2	15.4	7.5	67.	56.	SIGT
											0.5	0.6	-0.1	-3.	-4.	SP
											-0.8	-0.5	-0.2	-2.	0.	QBO
											1.0	0.6	0.2	2.	0.	MAG
											2.8	2.2	0.6	2.	-12.	RANS
											3.1	3.9	2.5	17.	13.	SIGS
											-8.6	-2.9	-5.6	0.	15.	RANL
											4.1	4.5	2.3	30.	24.	SIGL
											-5.8	-0.8	-5.0	2.	3.	RANT
											5.1	5.9	3.4	34.	27.	SIGT
60.00	28.45	80.530.227E+020.324E-03	244.	8.	0.0.224E+020.316E-03	246.	19.	-12.	0.7	0.0	0.1	-0.1	0.2	-1.	0.	SP
0		3.4% 4.7% -1.3% -0.21E-04			2.0% 2.0% -0.3%			-0.48			0.1	0.1	-0.2	4.	0.	QBO
											3.0	1.9	0.6	5.	1.	MAG
											-0.1	-2.1	2.0	2.	-5.	RANS
											2.9	2.8	1.8	9.	6.	SIGS
											-1.3	-0.5	-0.8	6.	-6.	RANL
											3.9	3.9	2.0	13.	6.	SIGL
											-1.4	-2.6	1.2	7.	-12.	RANT
											4.8	4.8	2.7	16.	9.	SIGT
40.00	28.45	80.530.305E+030.421E-02	253.	-7.	1.0.315E+030.433E-02	254.	-1.	-1.	0.7	0.0	0.1	0.1	0.0	-2.	1.	SP
0		6.4% 5.3% 1.1% 0.99E-04			9.7% 8.3% 1.3%			-0.11			1.2	1.1	0.1	-1.	-1.	QBO
											2.1	1.4	0.8	5.	2.	MAG
											-1.0	0.7	-1.7	-6.	2.	RANS
											1.9	1.8	1.0	5.	3.	SIGS
											2.9	1.1	1.8	14.	-2.	RANL
											2.8	2.4	1.1	11.	4.	SIGL
											1.9	1.8	0.1	8.	-1.	RANT
											3.4	3.0	1.5	12.	5.	SIGT
20.00	28.45	80.530.573E+040.941E-01	212.	44.	21.0.574E+040.933E-01	215.	39.	23.	-1.4	0.0	0.0	0.0	0.0	0.	0.	SP
0		3.6% 5.8% -2.1% -0.40E-02			3.8% 4.9% -0.8%			0.03			0.0	0.0	0.0	0.	0.	QBO
											0.2	0.2	0.4	-3.	0.	QBO
											0.2	0.5	0.6	5.	1.	MAG
											0.3	-0.7	1.0	-2.	-1.	RANS
											0.4	0.6	0.5	2.	2.	SIGS
											-0.3	-0.4	0.0	0.	3.	RANL
											0.5	0.7	0.5	5.	2.	SIGL
											0.0	-1.0	1.0	-2.	2.	RANT
											0.6	0.9	0.8	5.	3.	SIGT
0.00	28.45	80.530.102E+060.118E+01	300.	-4.	1.0.102E+060.119E+01	297.	-2.	6.	2.4	-0.1	0.0	0.0	0.0	0.	0.	SP
0		0.3% -3.5% 4.0% 0.68E-03			0.5% -2.6% 3.1%			-1.19			0.0	0.0	0.0	0.	0.	QBO
											0.0	0.0	0.0	0.	0.	MAG
											0.2	0.2	0.0	0.	0.	RANS
											0.2	0.5	0.5	1.	2.	SIGS
											-0.1	0.7	-0.8	2.	6.	RANL
											0.2	0.5	0.5	4.	2.	SIGL
											0.1	0.9	-0.8	2.	6.	RANT
											0.3	0.7	0.7	4.	3.	SIGT

4. 4-D CONVERSION

4.1 Description

The world-wide meteorological data set developed for the 4-D model by Allied Research Associates (Spiegler and Fowler, 1972) was originally binary tapes labeled WW1A–WW3A. The files on these binary tapes were split up by many users into individual monthly binary or ASCII sequential files stored on their computers. These files, one per month, have now been converted to ASCII files which can be read by random access (or “direct access”) I/O operations in the new GRAM-90.

Within each file are 3,490 records representing the values at individual grid points of latitude and longitude. These points are grouped into three grid areas: 288 points on the Northern Hemisphere equatorial (EQN) grid; 1,977 points on the Northern Hemisphere (National Meteorological Center, NMC) grid; and 1,225 points on the Southern Hemisphere (SH) grid. On the NMC grid, the data were computed at NMC points and are stored in the order given by the NMC grid table given in the SCIDAT9 data file which concludes this volume. For the other two grid areas, the data are given at 5° latitude-longitude intersections westward from the Greenwich Meridian to 5° E. The EQN grid covers the latitudes from 0° to 15° N. with points occurring in the following order: 1–4 = long. 0, lat. 0, 5, 10, 15; 5–8 = long. 5° W., lat. 0, 5, 10, 15; ...285–288 = long. 5° E., lat. 0, 5, 10, 15. The SH grid contains all data from 5° S. to the South Pole as follows: 1 = South Pole, 2–8 = long. 0, lat. –5 to –85; 19–35 = long. 5° W., lat. –5 to –85; ...1,209–1,225 = long. 5° E., lat. –5 to –85. It should be noted that the South Pole is given only once, as the first point of the SH data set.

Each record consists of 1,268 ASCII characters (formatted 208F6.2, 2F4.2, 3F4.0). The first 208 parameter values contain the thermodynamic data for a latitude-longitude grid point. The last five variable values are identifiers. The data are arranged by altitude level for each parameter; thus, the first 26 values contain the pressure means from the surface to 25 km and the next 26 values contain the pressure variances for the same levels. This pattern continues for the 26 levels of temperature means and variances, moisture means and variances, and density means and variances. Temperatures are in degrees Kelvin (K), pressures are in millibars (mb) (multiplied by 100 for use in GRAM-90, to give Newtons per square meter ($\text{N}\cdot\text{m}^{-2}$)), and densities are in grams per cubic meter ($\text{g}\cdot\text{m}^{-3}$) (divided by 1,000 for use in GRAM-90, to give kilograms per cubic meter ($\text{kg}\cdot\text{m}^{-3}$)). GRAM-90 does not use the moisture means and variances.

Variables 209 and 210 contain the latitude and longitude of the data grid point (in 10ths of a degree). The latitude is always positive (since the Southern Hemisphere is identified by grid), and the longitude is always west.

The last three values (variables 211–213) contain three identifier parameters. The first of these is the homogeneous moisture region in which the point lies, the second is the point number, and the third is the month. It should be noted that the 4-D points are numbered within the grid that contains them, and not by their location in the file. Thus, the point numbers run from 1–288 (EQN grid), 1–1,977 (NMC grid), and 1–1,225 (SH grid), not from 1–3,490.

The following JCL and FORTRAN code sequence is one example which has been used on MSFC's IBM 3090 computer to reconfigure the 4-D sequential data sets needed by previous GRAM versions into the direct access data sets required by this version of the GRAM-90. In this example, conversion is made from a sequential ASCII format version of a single-month data set to the ASCII direct access format. It should be noted that due to several previously identified errors in the April, June, and October 4-D data bases, most users may have incorrect versions of those months, which must be corrected or replaced before conversion to enable correct functioning. Corrected copies of or corrections to the data bases may be obtained from Mr. Dale Johnson, ES44, NASA MSFC, Huntsville, AL 35812.

4.2 Code

```
//CWEJ412C JOB (6ES551500466), 'JEFFRIES/5449136'
//      MSGLEVEL=1,MSGCLASS=X,CLASS=A
/*JOBPARM F=9700,R=412
//****THE FOLLOWING STEP PREALLOCATES A DIRECT ACCESS DATA SET WHICH IS
//***LATER INVOKED, LINKED TO A UNIT AND MANIPULATED.
//***LATEST MOD: 22 MAY 1990
//STEPO EXEC PGM=IEFBR14
//DD1      DD DSN=CWEJ412.GRAMOD90.NDAT4D10.
//****NOTE: DSN MUST BE CHANGED FOR EACH NEWLY ALLOCATED DATA SET.
//***      MATCHED WITH THE ENTRY FOR FTO8FOO1 BELOW, AND BE COMPATABLE
//***      WITH THE SOURCE IN FTO7FOO1.
//          DISP=(NEW,CATLG),UNIT=SYSDA.
//          SPACE=(1269,(3490.0)).
//****NOTE: SPACE = BLKSIZE (I.E. # BYTES), # BLKS, # ADDNL BLKS.
//          DCB=(RECFM=F,LRECL=1269,DSORG=DA)
//****THE FOLLOWING STEP COMPILES, LINKS AND RUNS THE PROGRAM CONV4D
//***WHICH IS INCLUDED IN THIS JCL STREAM.
//CONV4D EXEC VSF2CLG,PARM FORT='SDUMP(ISN)'
//FORT.SYSIN DD *
      PROGRAM CONV4D
      READS IN 4-D DATA TYPE IN MULTIRECORD FORMAT AND CONVERTS IT
      TO A FORMAT SUITABLE FOR DIRECT (RANDOM) ACCESS.
      LAST MOD: 22 MAY 1990
      C
      INTEGER DATA(213)
      C
      OPEN(8,ACCESS='DIRECT',FORM='FORMATTED',RECL=1269)
      DO 10 I=1,3490
          READ(7,8000,END=11) DATA
      8000  FORMAT(318.21(1018))
          WRITE(8,8010,REC=I) DATA
      8010  FORMAT(20816.514)
      10  CONTINUE
      11  CONTINUE
      END
/*
//GO.FTO7FOO1 DD DSN=CWEJ412.ATMOSMDL.NDATWW10(OCT),DISP=SHR
//****THE FOREGOING IS THE SOURCE FILE OF THE DATA TO BE CONVERTED.
//GO.FTO8FOO1 DD DSN=CWEJ412.GRAMOD90.NDAT4D10,DISP=SHR
//****THE FOREGOING IS THE TARGET FILE FOR THE CONVERTED DATA.
//
```

5. 4-D RECORD

The following example depicts the sequence and form (but not the GRAM-90 format) of the values of the variables found in each individual data record of a monthly 4-D data set. The depicted data record is record number 3,348 of the April data set, a record in the Southern Hemisphere (SH) grid with NMC point number of 1,083, as previously described.

	99340	87590	77060						
67630	59180	51620	44890	38890	33560	28790	24710	21200	18140
15550	13330	11430	9800	8400	7200	6170	5280	4530	3880
3320	0	0	9011	7299	7672	8427	9066	9344	9544
9494	9171	8091	5716	4032	2463	1305	649	293	113
74	48	31	20	21	30	37	0	0	27390
26830	26370	25850	25280	24700	24090	23470	22850	22370	22290
22210	22180	22190	22200	22200	22200	22150	22100	22050	21990
21950	21910	21870	0	0	5224	5224	5644	6119	6350
6585	6225	5684	5167	5191	7389	9975	9188	6004	3495
1661	501	400	320	249	186	157	156	154	0
0	440	300	170	100	60	40	25	16	10
6	4	3	2	1	1	0	0	0	0
0	0	0	0	0	0	0	30	30	30
16	7	4	2	1	1	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	126360	113730	101810	91160	81570	72810	64920
57730	51170	44830	38620	33250	28490	24420	20920	17930	15370
13210	11350	9750	8370	7190	6170	5290	0	0	111165
93850	84079	76084	66094	57201	45196	34378	25924	20865	22183
22357	15149	7266	3107	1084	240	143	84	49	27
17	12	9	0	0	550	3150	38	1083	4

6. SCIDAT9 DATA BASE

6.1 Description

NMC Grid Data. This data segment gives the 4-D Northern Hemisphere point number and the dual index for the corresponding NMC location. The NMC grid locations form an octagonal array, centered on the North Pole. The points are at square grid locations on the polar projection used for the NMC grid. A conversion between the latitude and longitude (treated as polar coordinates on the flat NMC grid plane) and the NMC grid indices (treated as Cartesian coordinates on the projection plane) is accomplished by a polar to Cartesian coordinate transformation, via equations programmed into the 4-D model. The NMC grid data in the SCIDAT9 file merely establishes the equivalence between the sequential 4-D NMC point number and the 2-D x-y NMC grid point location. The NMC grid data constitute the first group of data in the SCIDAT9 file. The NMC grid data file contains 396 FORTRAN readable records with code "N" and 15 integers (A2, 1517 format) in each record.

Zonal Mean Data. The zonal mean data consist of 12 monthly sets of zonal mean values for pressure, density, temperature, and zonal wind, tabulated at 10° latitude intervals (from -90 to $+90$) and 5-km height increments (from 20 to 120 km) for each month. Prefix codes ZP, ZD, ZT, and ZU indicate pressure, density, temperature, and zonal wind, respectively. Each record contains the code, the month, the height in km, and the $-90, -80, \dots, 80, 90^\circ$ latitude values of the parameter expressed as a four-digit integer, with an exponent common to all of the values in the field appearing at the end of the record. Thus, a value of 2,761 with an exponent at the end of the record of -6 , would be the same as $2,761 \times 10^{-6} = 2.761 \times 10^{-3}$. Pressure data are in units of N/m², density values are in kg/m³, temperatures are in K, and zonal winds are in m/s. The zone mean data group contains 1,008 FORTRAN readable records, with the code and 22 integer values in each record (format A2, I4, I5, I9I6, I4).

Stationary Perturbations. The stationary perturbations are latitude-longitude dependent relative perturbations to be applied to the zonal mean values. Data for each of 12 months are given for both Northern and Southern Hemisphere latitudes. Prefix codes SP, SD, ST, SU, and SV indicate stationary perturbation values for pressure, density, temperature, zonal (eastward), or meridional (northward) wind components, respectively. Each record contains the code, the month, the height in km, the latitude (-80 to $+80$) in degrees, and then 18 values of stationary perturbations, in per mil ($\%/10$) for the thermodynamic variables, and 0.1 m/s for the winds at longitude $180, 160^\circ$ W., 140° W., ..., 140° E., 160° E. The monthly mean value y_m for parameter y at any latitude and longitude can be computed from the zonal mean value z_y , at the latitude, and the stationary perturbation s_y (in per mil) at the latitude and longitude, by the relation

$$y_m = z_y(1 + s_y / 1,000)$$

Note that the stationary perturbation values at 90° latitude are always zero. The stationary perturbation data consist of 15,300 FORTRAN readable records, with a code and 21 integer values (format A2, 21I5).

Random Perturbation Data. Random perturbation magnitudes (standard deviations) are latitude dependent only. Prefix codes RP, RD, RT, RU, and RV indicate random perturbation magnitudes in pressure, density, temperature, zonal wind, and meridional wind components, respectively. Each random perturbation record has the code, the month and height in km, followed by 19 values of random perturbation magnitude, at 10° latitude increments (-90 to $+90$), followed by a common exponent value. These data give the relative standard deviations σ_p/\bar{p} , $\sigma_\rho/\bar{\rho}$, and σ_T/\bar{T} (in percent) for use in the random perturbation model. The code RU and RV data are similar, except that the wind perturbations are absolute deviations in m/s, and cover the height range 0–200 km, whereas the RP, RD, and RT data cover the 20–200-km range. Random perturbation magnitudes for the 0–25-km altitude range are provided by the 4-D data base for the thermodynamic variables. The random perturbation data consist of 1,596 FORTRAN readable records with a code and 22 integer values (A2, I4, I5, 19I6, I4) in each record.

Large Scale Fraction Data. From daily difference analysis described in section 2 of Justus et al. (1980), the fraction of the total variance (σ^2 from the random perturbation data) contained in the large scale perturbations has been determined as a fraction of height and latitude. The SCIDAT9 file contains the annual average fraction (expressed as per mil) of total variance contained in the large scale. Large scale and small scale magnitudes, σ_L and σ_s , are computed from the fractional data f_L in per mil (code P for pressure, density, and temperature, or code PW for winds) by the relations

$$\sigma_L = (\sqrt{f_L}/1,000) \sigma_T$$

$$\sigma_s = (\sqrt{1-f_L}/1,000) \sigma_T,$$

where σ_T is the total perturbation magnitude. The code P and code PW data groups each contain 25 FORTRAN readable records, with code word P or PW, followed by 17 integer values (A2, 17I7) on each record.

Density-Velocity Correlations. Daily difference analysis (Justus et al., 1980) was also used to evaluate the cross correlations R_{up} and R_{vp} for use in the velocity perturbation model, described in section 2 of part I. Both large scale and small scale values of the density-velocity correlations were evaluated, and are given in the SCIDAT9 data file (codes CL and CS) in per mil (i.e., divide by 1,000 to get correlations in the range -1 to $+1$). The code CS and CL data consist of 50 FORTRAN readable records, with code word CS or CL, followed by 12 integer values (A2, 12I7) in each record.

Quasi-Biennial Oscillation (QBO) Data. The QBO data consist of height and latitude dependent amplitudes and phases for quasi-biennial variations in pressure (QP), density (QD), temperature (QT), and eastward and northward wind components (QU and QV, respectively). The amplitudes of the QBO wind components are in decimeters per second (0.1 m/s). The phases of all of the QBO parameters are measured in days after January 0, 1966, for the occurrence of the first maximum value. Since the period of the QBO variations is taken to be 870 days, the phases can vary from 0 to 870. Each QBO data record contains the code, the height in km, the amplitude and phase for 10° latitude, the amplitude and phase for 30° latitude, etc. out to the amplitude and

phase for 90° latitude. There are 80 FORTRAN readable records in the QBO data group. Each record contains 11 integer values, following a code word (QP, QD, QT, QU, or QV) in format A2, 15I7.

The following is a listing of the entire SCIDAT9 data base, which is further described in section 4.3 of volume I (Justus et al., 1990).

6.2 DATA

DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9DATE: 90/09/10
TIME: 15:23
PAGE: 1

START COL	1	2	3	4	5	6	7	8	9	0					
1 N	1	15	1	2	16	1	3	17	1	4	18	1	5	19	
1 N	1	6	1	7	21	1	8	22	1	9	23	1	10	24	
1 N	1	11	1	12	26	1	13	27	1	14	28	1	15	29	
1 N	1	16	1	17	31	1	18	32	1	19	33	1	20	14	
1 N	2	21	15	2	22	16	2	23	17	2	24	18	2	25	19
1 N	2	26	20	2	27	21	2	28	22	2	29	23	2	30	24
1 N	2	31	25	2	32	26	2	33	27	2	34	28	2	35	29
1 N	2	36	30	2	37	31	2	38	32	2	39	33	2	40	34
1 N	2	41	13	3	42	14	3	43	15	3	44	16	3	45	17
1 N	3	46	18	3	47	19	3	48	20	3	49	21	3	50	22
1 N	3	51	23	3	52	24	3	53	25	3	54	26	3	55	27
1 N	3	56	28	3	57	29	3	58	30	3	59	31	3	60	32
1 N	3	61	33	3	62	34	3	63	35	3	64	12	4	65	13
1 N	4	66	14	4	67	15	4	68	16	4	69	17	4	70	18
1 N	4	71	19	4	72	20	4	73	21	4	74	22	4	75	23
1 N	4	76	24	4	77	25	4	78	26	4	79	27	4	80	28
1 N	4	81	29	4	82	30	4	83	31	4	84	32	4	85	33
1 N	4	86	34	4	87	35	4	88	36	4	89	11	5	90	12
1 N	5	91	13	5	92	14	5	93	15	5	94	16	5	95	17
1 N	5	96	18	5	97	19	5	98	20	5	99	21	5	100	22
1 N	5	101	23	5	102	24	5	103	25	5	104	26	5	105	27
1 N	5	106	28	5	107	29	5	108	30	5	109	31	5	110	32
1 N	5	111	33	5	112	34	5	113	35	5	114	36	5	115	37
1 N	5	116	10	6	117	11	6	118	12	6	119	13	6	120	14
1 N	6	121	15	6	122	16	6	123	17	6	124	18	6	125	19
1 N	6	126	20	6	127	21	6	128	22	6	129	23	6	130	24
1 N	6														

DATASET: CWEJ412.GRAMDD90.DATA
MEMBER: SCIDAT9

SCIDAT9

DATE: 90/09/10
TIME: 15:23
PAGE: 2

START COL	1	2	3	4	5	6	7	8	9	10					
1	N	131 6	25	6	132	26	6	133	27	6	134	28	6	135	29
1	N	136 6	30	6	137	31	6	138	32	6	139	33	6	140	34
1	N	141 7	35	6	142	36	6	143	37	6	144	38	6	145	9
1	N	146 7	10	7	147	11	7	148	12	7	149	13	7	150	14
1	N	151 7	15	7	152	16	7	153	17	7	154	18	7	155	19
1	N	156 7	20	7	157	21	7	158	22	7	159	23	7	160	24
1	N	161 7	25	7	162	26	7	163	27	7	164	28	7	165	29
1	N	166 7	30	7	167	31	7	168	32	7	169	33	7	170	34
1	N	171 7	35	7	172	36	7	173	37	7	174	38	7	175	39
1	N	176 8	8	8	177	9	8	178	10	8	179	11	8	180	12
1	N	181 8	13	8	182	14	8	183	15	8	184	16	8	185	17
1	N	186 8	18	8	187	19	8	188	20	8	189	21	8	190	22
1	N	191 8	23	8	192	24	8	193	25	8	194	26	8	195	27
1	N	196 8	28	8	197	29	8	198	30	8	199	31	8	200	32
1	N	201 8	33	8	202	34	8	203	35	8	204	36	8	205	37
1	N	206 9	38	8	207	39	8	208	40	8	209	7	9	210	8
1	N	211 9	9	9	212	10	9	213	11	9	214	12	9	215	13
1	N	216 9	14	9	217	15	9	218	16	9	219	17	9	220	18
1	N	221 9	19	9	222	20	9	223	21	9	224	22	9	225	23
1	N	226 9	24	9	227	25	9	228	26	9	229	27	9	230	28
1	N	231 9	29	9	232	30	9	233	31	9	234	32	9	235	33
1	N	236 9	34	9	237	35	9	238	36	9	239	37	9	240	38
1	N	241 10	39	9	242	40	9	243	41	9	244	6	10	245	7
1	N	246 10	8	10	247	9	10	248	10	10	249	11	10	250	12
1	N	251 10	13	10	252	14	10	253	15	10	254	16	10	255	17
1	N	256 10	18	10	257	19	10	258	20	10	259	21	10	260	22

DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9DATE: 90/09/10
TIME: 15:23
PAGE: 3

START COL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
1 N	261	23	10	262	24	10	263	25	10	264	26	10	265	27																		
10																																
1 N	266	28	10	267	29	10	268	30	10	269	31	10	270	32																		
10																																
1 N	271	33	10	272	34	10	273	35	10	274	36	10	275	37																		
10																																
1 N	276	38	10	277	39	10	278	40	10	279	41	10	280	42																		
10																																
1 N	281	5	11	282	6	11	283	7	11	284	8	11	285	9																		
11																																
1 N	286	10	11	287	11	11	288	12	11	289	13	11	290	14																		
11																																
1 N	291	15	11	292	16	11	293	17	11	294	18	11	295	19																		
11																																
1 N	296	20	11	297	21	11	298	22	11	299	23	11	300	24																		
11																																
1 N	301	25	11	302	26	11	303	27	11	304	28	11	305	29																		
11																																
1 N	306	30	11	307	31	11	308	32	11	309	33	11	310	34																		
11																																
1 N	311	35	11	312	36	11	313	37	11	314	38	11	315	39																		
11																																
1 N	316	40	11	317	41	11	318	42	11	319	43	11	320	4																		
12																																
1 N	321	5	12	322	6	12	323	7	12	324	8	12	325	9																		
12																																
1 N	326	10	12	327	11	12	328	12	12	329	13	12	330	14																		
12																																
1 N	331	15	12	332	16	12	333	17	12	334	18	12	335	19																		
12																																
1 N	336	20	12	337	21	12	338	22	12	339	23	12	340	24																		
12																																
1 N	341	25	12	342	26	12	343	27	12	344	28	12	345	29																		
12																																
1 N	346	30	12	347	31	12	348	32	12	349	33	12	350	34																		
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1 N	351	35	12	352	36	12	353	37	12	354	38	12	355	39																		
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1 N	356	40	12	357	41	12	358	42	12	359	43	12	360	44																		
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1 N	361	3	13	362	4	13	363	5	13	364	6	13	365	7																		
13																																
1 N	366	8	13	367	9	13	368	10	13	369	11	13	370	12																		
13																																
1 N	371	13	13	372	14	13	373	15	13	374	16	13	375	17																		
13																																
1 N	376	18	13	377	19	13	378	20	13	379	21	13	380	22																		
13																																
1 N	381	23	13	382	24	13	383	25	13	384	26	13	385	27																		
13																																
1 N	386	28	13	387	29	13	388	30	13	389	31	13	390	32																		
13																																

DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

DATE: 90/09/10
TIME: 15:23
PAGE: 4

SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0				
1 N	391 13	33	13	392	34	13	393	35	13	394	36	13	395	37
1 N	396 13	38	13	397	39	13	398	40	13	399	41	13	400	42
1 N	401 14	43	13	402	44	13	403	45	13	404	2	14	405	3
1 N	406 14	4	14	407	5	14	408	6	14	409	7	14	410	8
1 N	411 14	9	14	412	10	14	413	11	14	414	12	14	415	13
1 N	416 14	14	14	417	15	14	418	16	14	419	17	14	420	18
1 N	421 14	19	14	422	20	14	423	21	14	424	22	14	425	23
1 N	426 14	24	14	427	25	14	428	26	14	429	27	14	430	28
1 N	431 14	29	14	432	30	14	433	31	14	434	32	14	435	33
1 N	436 14	34	14	437	35	14	438	36	14	439	37	14	440	38
1 N	441 14	39	14	442	40	14	443	41	14	444	42	14	445	43
1 N	446 15	44	14	447	45	14	448	46	14	449	1	15	450	2
1 N	451 15	3	15	452	4	15	453	5	15	454	6	15	455	7
1 N	456 15	8	15	457	9	15	458	10	15	459	11	15	460	12
1 N	461 15	13	15	462	14	15	463	15	15	464	16	15	465	17
1 N	466 15	18	15	467	19	15	468	20	15	469	21	15	470	22
1 N	471 15	23	15	472	24	15	473	25	15	474	26	15	475	27
1 N	476 15	28	15	477	29	15	478	30	15	479	31	15	480	32
1 N	481 15	33	15	482	34	15	483	35	15	484	36	15	485	37
1 N	486 15	38	15	487	39	15	488	40	15	489	41	15	490	42
1 N	491 15	43	15	492	44	15	493	45	15	494	46	15	495	47
1 N	496 16	1	16	497	2	16	498	3	16	499	4	16	500	5
1 N	501 16	6	16	502	7	16	503	8	16	504	9	16	505	10
1 N	506 16	11	16	507	12	16	508	13	16	509	14	16	510	15
1 N	511 16	16	16	512	17	16	513	18	16	514	19	16	515	20
1 N	516 16	21	16	517	22	16	518	23	16	519	24	16	520	25

DATASET : CWEJ412.GRAM090.DATA
MEMBER : SCIDAT9

DATE : 90/09/10
TIME : 15:23
PAGE : 5

SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	10				
1 N	521 16	26	16	522	27	16	523	28	16	524	29	16	525	30
1 N	526 16	31	16	527	32	16	528	33	16	529	34	16	530	35
1 N	531 16	36	16	532	37	16	533	38	16	534	39	16	535	40
1 N	536 16	41	16	537	42	16	538	43	16	539	44	16	540	45
1 N	541 17	46	16	542	47	16	543	1	17	544	2	17	545	3
1 N	546 17	4	17	547	5	17	548	6	17	549	7	17	550	8
1 N	551 17	9	17	552	10	17	553	11	17	554	12	17	555	13
1 N	556 17	14	17	557	15	17	558	16	17	559	17	17	560	18
1 N	561 17	19	17	562	20	17	563	21	17	564	22	17	565	23
1 N	566 17	24	17	567	25	17	568	26	17	569	27	17	570	28
1 N	571 17	29	17	572	30	17	573	31	17	574	32	17	575	33
1 N	576 17	34	17	577	35	17	578	36	17	579	37	17	580	38
1 N	581 17	39	17	582	40	17	583	41	17	584	42	17	585	43
1 N	586 18	44	17	587	45	17	588	46	17	589	47	17	590	1
1 N	591 18	2	18	592	3	18	593	4	18	594	5	18	595	6
1 N	596 18	7	18	597	8	18	598	9	18	599	10	18	600	11
1 N	601 18	12	18	602	13	18	603	14	18	604	15	18	605	16
1 N	606 18	17	18	607	18	18	608	19	18	609	20	18	610	21
1 N	611 18	22	18	612	23	18	613	24	18	614	25	18	615	26
1 N	616 18	27	18	617	28	18	618	29	18	619	30	18	620	31
1 N	621 18	32	18	622	33	18	623	34	18	624	35	18	625	36
1 N	626 18	37	18	627	38	18	628	39	18	629	40	18	630	41
1 N	631 18	42	18	632	43	18	633	44	18	634	45	18	635	46
1 N	636 19	47	18	637	1	19	638	2	19	639	3	19	640	4
1 N	641 19	5	19	642	6	19	643	7	19	644	8	19	645	9
1 N	646 19	10	19	647	11	19	648	12	19	649	13	19	650	14

DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9
DATE: 90/09/10
TIME: 15:23
PAGE: 6

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1 N	661 19	25	19	662	26	19	663	27	19	664	28	19	665	29
1 N	666 19	30	19	667	31	19	668	32	19	669	33	19	670	34
1 N	671 19	35	19	672	36	19	673	37	19	674	38	19	675	39
1 N	676 19	40	19	677	41	19	678	42	19	679	43	19	680	44
1 N	681 20	45	19	682	46	19	683	47	19	684	1	20	685	2
1 N	686 20	3	20	687	4	20	688	5	20	689	6	20	690	7
1 N	691 20	8	20	692	9	20	693	10	20	694	11	20	695	12
1 N	696 20	13	20	697	14	20	698	15	20	699	16	20	700	17
1 N	701 20	18	20	702	19	20	703	20	20	704	21	20	705	22
1 N	706 20	23	20	707	24	20	708	25	20	709	26	20	710	27
1 N	711 20	28	20	712	29	20	713	30	20	714	31	20	715	32
1 N	716 20	33	20	717	34	20	718	35	20	719	36	20	720	37
1 N	721 20	38	20	722	39	20	723	40	20	724	41	20	725	42
1 N	726 20	43	20	727	44	20	728	45	20	729	46	20	730	47
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1 N	736 21	6	21	737	7	21	738	8	21	739	9	21	740	10
1 N	741 21	11	21	742	12	21	743	13	21	744	14	21	745	15
1 N	746 21	16	21	747	17	21	748	18	21	749	19	21	750	20
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1 N	756 21	26	21	757	27	21	758	28	21	759	29	21	760	30
1 N	761 21	31	21	762	32	21	763	33	21	764	34	21	765	35
1 N	766 21	36	21	767	37	21	768	38	21	769	39	21	770	40
1 N	771 21	41	21	772	42	21	773	43	21	774	44	21	775	45
1 N	776 22	46	21	777	47	21	778	1	22	779	2	22	780	3

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1 N	786 22	9	22	787	10	22	788	11	22	789	12	22	790	13
1 N	791 22	14	22	792	15	22	793	16	22	794	17	22	795	18
1 N	796 22	19	22	797	20	22	798	21	22	799	22	22	800	23
1 N	801 22	24	22	802	25	22	803	26	22	804	27	22	805	28
1 N	806 22	29	22	807	30	22	808	31	22	809	32	22	810	33
1 N	811 22	34	22	812	35	22	813	36	22	814	37	22	815	38
1 N	816 22	39	22	817	40	22	818	41	22	819	42	22	820	43
1 N	821 23	44	22	822	45	22	823	46	22	824	47	22	825	1
1 N	826 23	2	23	827	3	23	828	4	23	829	5	23	830	6
1 N	831 23	7	23	832	8	23	833	9	23	834	10	23	835	11
1 N	836 23	12	23	837	13	23	838	14	23	839	15	23	840	16
1 N	841 23	17	23	842	18	23	843	19	23	844	20	23	845	21
1 N	846 23	22	23	847	23	23	848	24	23	849	25	23	850	26
1 N	851 23	27	23	852	28	23	853	29	23	854	30	23	855	31
1 N	856 23	32	23	857	33	23	858	34	23	859	35	23	860	36
1 N	861 23	37	23	862	38	23	863	39	23	864	40	23	865	41
1 N	866 23	42	23	867	43	23	868	44	23	869	45	23	870	46
1 N	871 24	47	23	872	1	24	873	2	24	874	3	24	875	4
1 N	876 24	5	24	877	6	24	878	7	24	879	8	24	880	9
1 N	881 24	10	24	882	11	24	883	12	24	884	13	24	885	14
1 N	886 24	15	24	887	16	24	888	17	24	889	18	24	890	19
1 N	891 24	20	24	892	21	24	893	22	24	894	23	24	895	24
1 N	896 24	25	24	897	26	24	898	27	24	899	28	24	900	29
1 N	901 24	30	24	902	31	24	903	32	24	904	33	24	905	34
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1 N	921 25	3	25	922	4	25	923	5	25	924	6	25	925	7
1 N	926 25	8	25	927	9	25	928	10	25	929	11	25	930	12
1 N	931 25	13	25	932	14	25	933	15	25	934	16	25	935	17
1 N	936 25	18	25	937	19	25	938	20	25	939	21	25	940	22
1 N	941 25	23	25	942	24	25	943	25	25	944	26	25	945	27
1 N	946 25	28	25	947	29	25	948	30	25	949	31	25	950	32
1 N	951 25	33	25	952	34	25	953	35	25	954	36	25	955	37
1 N	956 25	38	25	957	39	25	958	40	25	959	41	25	960	42
1 N	961 25	43	25	962	44	25	963	45	25	964	46	25	965	47
1 N	966 26	1	26	967	2	26	968	3	26	969	4	26	970	5
1 N	971 26	6	26	972	7	26	973	8	26	974	9	26	975	10
1 N	976 26	11	26	977	12	26	978	13	26	979	14	26	980	15
1 N	981 26	16	26	982	17	26	983	18	26	984	19	26	985	20
1 N	986 26	21	26	987	22	26	988	23	26	989	24	26	990	25
1 N	991 26	26	26	992	27	26	993	28	26	994	29	26	995	30
1 N	996 26	31	26	997	32	26	998	33	26	999	34	26	1000	35
1 N	1001 26	36	26	1002	37	26	1003	38	26	1004	39	26	1005	40
1 N	1006 26	41	26	1007	42	26	1008	43	26	1009	44	26	1010	45
1 N	1011 27	46	26	1012	47	26	1013	1	27	1014	2	27	1015	3
1 N	1016 27	4	27	1017	5	27	1018	6	27	1019	7	27	1020	8
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1 N	1026 27	14	27	1027	15	27	1028	16	27	1029	17	27	1030	18
1 N	1031 27	19	27	1032	20	27	1033	21	27	1034	22	27	1035	23
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1 N	1051 27	39	27	1052	40	27	1053	41	27	1054	42	27	1055	43
1 N	1056 28	44	27	1057	45	27	1058	46	27	1059	47	27	1060	1
1 N	1061 28	2	28	1062	3	28	1063	4	28	1064	5	28	1065	6
1 N	1066 28	7	28	1067	8	28	1068	9	28	1069	10	28	1070	11
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1 N	1076 28	17	28	1077	18	28	1078	19	28	1079	20	28	1080	21
1 N	1081 28	22	28	1082	23	28	1083	24	28	1084	25	28	1085	26
1 N	1086 28	27	28	1087	28	28	1088	29	28	1089	30	28	1090	31
1 N	1091 28	32	28	1092	33	28	1093	34	28	1094	35	28	1095	36
1 N	1096 28	37	28	1097	38	28	1098	39	28	1099	40	28	1100	41
1 N	1101 28	42	28	1102	43	28	1103	44	28	1104	45	28	1105	46
1 N	1106 29	47	28	1107	1	29	1108	2	29	1109	3	29	1110	4
1 N	1111 29	5	29	1112	6	29	1113	7	29	1114	8	29	1115	9
1 N	1116 29	10	29	1117	11	29	1118	12	29	1119	13	29	1120	14
1 N	1121 29	15	29	1122	16	29	1123	17	29	1124	18	29	1125	19
1 N	1126 29	20	29	1127	21	29	1128	22	29	1129	23	29	1130	24
1 N	1131 29	25	29	1132	26	29	1133	27	29	1134	28	29	1135	29
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1 N	1146 29	40	29	1147	41	29	1148	42	29	1149	43	29	1150	44
1 N	1151 30	45	29	1152	46	29	1153	47	29	1154	1	30	1155	2
1 N	1156 30	3	30	1157	4	30	1158	5	30	1159	6	30	1160	7
1 N	1161 30	8	30	1162	9	30	1163	10	30	1164	11	30	1165	12
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1	N	1186 30	33	30	1187	34	30	1188	35	30	1189	36	30	1190	37
1	N	1191 30	38	30	1192	39	30	1193	40	30	1194	41	30	1195	42
1	N	1196 30	43	30	1197	44	30	1198	45	30	1199	46	30	1200	47
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1	N	1206 31	6	31	1207	7	31	1208	8	31	1209	9	31	1210	10
1	N	1211 31	11	31	1212	12	31	1213	13	31	1214	14	31	1215	15
1	N	1216 31	16	31	1217	17	31	1218	18	31	1219	19	31	1220	20
1	N	1221 31	21	31	1222	22	31	1223	23	31	1224	24	31	1225	25
1	N	1226 31	26	31	1227	27	31	1228	28	31	1229	29	31	1230	30
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1	N	1236 31	36	31	1237	37	31	1238	38	31	1239	39	31	1240	40
1	N	1241 31	41	31	1242	42	31	1243	43	31	1244	44	31	1245	45
1	N	1246 32	46	31	1247	47	31	1248	1	32	1249	2	32	1250	3
1	N	1251 32	4	32	1252	5	32	1253	6	32	1254	7	32	1255	8
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1	N	1266 32	19	32	1267	20	32	1268	21	32	1269	22	32	1270	23
1	N	1271 32	24	32	1272	25	32	1273	26	32	1274	27	32	1275	28
1	N	1276 32	29	32	1277	30	32	1278	31	32	1279	32	32	1280	33
1	N	1281 32	34	32	1282	35	32	1283	36	32	1284	37	32	1285	38
1	N	1286 32	39	32	1287	40	32	1288	41	32	1289	42	32	1290	43
1	N	1291 33	44	32	1292	45	32	1293	46	32	1294	47	32	1295	1
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1	N	1311 33	17	33	1312	18	33	1313	19	33	1314	20	33	1315	21
1	N	1316 33	22	33	1317	23	33	1318	24	33	1319	25	33	1320	26
1	N	1321 33	27	33	1322	28	33	1323	29	33	1324	30	33	1325	31
1	N	1326 33	32	33	1327	33	33	1328	34	33	1329	35	33	1330	36
1	N	1331 33	37	33	1332	38	33	1333	39	33	1334	40	33	1335	41
1	N	1336 33	42	33	1337	43	33	1338	44	33	1339	45	33	1340	46
1	N	1341 34	47	33	1342	1	34	1343	2	34	1344	3	34	1345	4
1	N	1346 34	5	34	1347	6	34	1348	7	34	1349	8	34	1350	9
1	N	1351 34	10	34	1352	11	34	1353	12	34	1354	13	34	1355	14
1	N	1356 34	15	34	1357	16	34	1358	17	34	1359	18	34	1360	19
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1	N	1366 34	25	34	1367	26	34	1368	27	34	1369	28	34	1370	29
1	N	1371 34	30	34	1372	31	34	1373	32	34	1374	33	34	1375	34
1	N	1376 34	35	34	1377	36	34	1378	37	34	1379	38	34	1380	39
1	N	1381 34	40	34	1382	41	34	1383	42	34	1384	43	34	1385	44
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1	N	1391 35	3	35	1392	4	35	1393	5	35	1394	6	35	1395	7
1	N	1396 35	8	35	1397	9	35	1398	10	35	1399	11	35	1400	12
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1	N	1421 35	33	35	1422	34	35	1423	35	35	1424	36	35	1425	37
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1	ZP	1	65	1781	1745	1637	1537	1401	1272	1181	1138	1131	1142	1143	1105	1034	943	85
		6	799	753	712	698	-2											
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		3	7266	6701	6214	6083	-5											
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START
COL

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3	3905	3816	3728	3706	-6													
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7	2406	2374	2344	2335	-6													
1	ZP	12	20	5481	5465	5418	5485	5572	5636	5666	5654	5625	5607	5614	5595	5518	5391	521
5	4993	4739	4513	4437	0													
1	ZP	12	25	2678	2662	2614	2619	2617	2603	2583	2559	2535	2523	2527	2523	2503	2459	237
8	2254	2103	1971	1926	0													
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7	1071	947	865	837	-1													
1	ZP	12	50	1121	1103	1049	1016	971	929	889	855	830	824	833	832	798	724	62
5	544	480	437	423	-1													
1	ZP	12	55	6247	6127	5768	5539	5240	4972	4727	4526	4386	4365	4422	4406	4190	3773	322
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8  1189  1100  1017  989  -7
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2	2360	2168	2024	1974	-7	1014	966	916	884	874	877	879	891	858	794	712	63
1	2	65	2085	2058	1975	4988	4653	4330	4194	4195	4231	4243	4291	4104	3783	3391	307
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3	5495	5143	4842	4761	-10	1976	2045	2087	2091	2081	2062	2053	2075	2060	2027	1960	187
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6	2220	2060	1917	1880	-10	5620	5871	6024	6028	6053	6045	6064	6158	6079	5902	5656	533
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7	918	857	801	787	-10	1559	1634	1681	1686	1709	1737	1752	1771	1718	1635	1543	143
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6	1934	1869	1804	1788	-11												
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5	1800	1748	1704	1690	-6												
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6	936	895	863	852	-6												
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1	2	160	2712	2742	2837												
8	2644	2557	2479	2452	-7												
1	2	165	1415	1427	1459												
5	1343	1298	1263	1250	-7												
1	2	170	7248	7284	7399												
6	6648	6426	6254	6199	-8												
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4	3191	3084	3031	3010	-9													
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3	1799	1819	1839	1845	-5													
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7	8216	8358	8480	8520	-6													
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7	3893	3924	3964	3977	-6													
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3	1036	1018	1009	1006	-6													
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6	1606	1585	1571	1566	-7													
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2	8150	7951	7831	7793	-8													
1	ZD	4	75	2514	2542	2630	2848	3148	3553	3883	4098	4157	4182	4238	4202	4192	4203	415
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8	1942	1903	1872	1863	-8													
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0	903	912	921	924	-8													
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3	3746	3774	3771	3776	-9													
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9	1892	1831	1769	1754	-11													
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5	8674	8564	8490	8466	-5													
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8	4041	4034	4029	4027	-5													
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9	1856	1867	1880	1884	-5													
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6	8601	8712	8828	8866	-6													
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6	1152	1163	1169	1171	-6													
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1	ZD	5	65	802	827	902	992	1119	1332	1530	1677	1743	1747	1762	1760	1786	1823	186
1	1894	1954	1996	2010	-7													
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8	986	1025	1057	1067	-7													
1	ZD	5	75	2009	2074	2276	2521	2788	3196	3638	3945	4015	4035	4154	4243	4360	4508	471
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6	2325	2461	2561	2594	-8													
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1	ZD	5	90	2316	2360	2498	2637	2891	3104	3280	3470	3503	3443	3477	3504	3534	3542	371
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8	1840	1742	1660	1638	-10													
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6	1129	1210	1272	1292	-7													
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1	ZD	7	85	415	427	470	526	584	645	704	761	793	793	787	783	800	841	94
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9	4189	4168	4149	4143	-5													
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6	1939	1938	1941	1942	-5													
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1	ZD	10	50	928	941	979												
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1	ZD	10	80	1929	1931	1942												
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9	2389	2382	2377	2376	-1													
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5	2258	2268	2265	2265	-1													
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1	ZT	4	85	2114	2111	2104	2098	2065	2032	2021	1998	1999	2006	2002	2000	1985	1929	189
1	1872	1857	1837	1832	-1													
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7	1706	1671	1641	1632	-1													
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3	1848	1836	1824	1821	-1													
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1	3854	3978	4101	4132	-1													
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9	2234	2264	2286	2294	-1													
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1	2246	2266	2286	2292	-1													
1	ZT	5	30	2045	2043	2038	2066	2137	2212	2270	2299	2319	2321	2317	2323	2321	2314	231
5	2324	2338	2348	2351	-1													
1	ZT	5	35	2210	2199	2169	2162	2204	2291	2364	2421	2454	2460	2456	2447	2450	2461	246
8	2472	2473	2470	2469	-1													

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6	2628	2632	2631	2630	-1													
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3	2745	2752	2757	2759	-1													
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4	2684	2719	2746	2755	-1													
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3	2551	2582	2608	2617	-1													
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5	2417	2440	2459	2467	-1													
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7	1843	1820	1803	1798	-1													
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6	2651	2728	2792	2810	-1													
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5	3153	3255	3356	3380	-1													
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2	2375	2398	2412	2417	-1													
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9	2516	2540	2547	2550	-1													
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7	2788	2830	2859	2869	-1													
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4	2719	2771	2808	2820	-1													
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3	2589	2630	2665	2677	-1													

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8	1955	1971	1979	1982	-1													
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8	1581	1525	1489	1479	-1													
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8	3907	4095	4280	4326	-1													
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9	2165	2199	2228	2237	-1													
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1	ZU	2	85	-38	-48	-80	-10	-6	51	45	46	16	9	88	182	267	224
1	7	21	10	6	-1												
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7	-80																

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COL

1	2U	3	30	66	89	158	132	80	0	-100	-191	-225	-174	-54	25	92	114	10
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4	109	64	7	-11	-1													
1	2U	3	40	101	132	224	207	122	17	-75	-152	-181	-167	-18	104	207	269	23
5	159	92	16	-8	-1													
1	2U	3	45	118	153	259	254	150	22	-53	-78	-44	-14	85	189	261	317	29
2	218	140	48	18	-1													
1	2U	3	50	124	163	278	286	168	25	-35	-2	96	121	193	272	306	352	32
7	250	166	65	32	-1													
1	2U	3	55	119	154	259	282	174	32	-8	81	214	235	305	350	340	364	33
3	245	149	59	30	-1													
1	2U	3	60	98	130	228	256	160	60	44	159	260	302	391	402	380	376	34
8	242	132	57	32	-1													
1	2U	3	65	79	100	164	197	133	104	123	190	199	293	392	380	361	347	33
9	242	134	80	62	-1													
1	2U	3	70	71	79	103	136	102	141	183	180	140	217	315	281	297	281	30
7	231	135	89	73	-1													
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2	229	162	114	98	-1													
1	2U	3	80	73	65	43	76	78	133	136	79	77	281	56	47	147	154	21
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7	145	173	116	96	-1													
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8	268	252	128	87	-1													
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4	303	271	138	93	-1													
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0	301	263	133	90	-1													
1	2U	3	105	53	80	162	256	323	355	358	401	546	715	413	221	291	268	22
5	255	230	115	76	-1													
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7	205	203	103	70	-1													
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6	203	211	108	73	-1													
1	2U	3	120	50	75	148	203	211	170	96	68	193	401	176	12	95	123	13
3	220	226	115	77	-1													
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1	2U	4	25	100	138	250	237	179	94	-1	-90	-147	-125	-52	-11	27	33	
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7	-36	-60	-55	-53	-1													
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1	2U	4	40	155	221	418	464	420	312	211	156	84	-4	21	52	94	117	9
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7	93	52	16	4	-1													
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4	85	83	62	55	-1												
ZU	4	75	52	79	163	260	385	457	393	212	10	-51	-167	-167	-105	-39	2
4	66	80	67	62	-1												
ZU	4	80	36	52	99	173	303	348	242	144	101	182	-157	-207	-115	-21	1
1	60	82	72	69	-1												
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9	263	215	111	76	-1												
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3	233	195	98	66	-1												
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3	236	203	103	69	-1												
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6	-66	-71	-28	-14	-1													
1	ZU	5	90	63	95	188	122	113	146	84	42	73	40	-36	61	265	284	16
7	145	85	43	30	-1													
1	ZU	5	95	50	76	151	66	56	95	43	32	106	117	84	211	421	435	30
8	255	161	82	56	-1													
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1	192	108	53	35	-1													
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4	-142	-111	-72	-59	-1													
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1	-186	-128	-68	-49	-1													
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3	-238	-155	-76	-49	-1													
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6	-342	-239	-118	-77	-1													
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1	ZU	7	20	139	192	353	463	377	242	139	64	-1	-48	-68	-117	-90	-39	-1
5	-15	-18	-14	-13	-1	-1	656	559	319	116	10	-55	-157	-151	-176	-155	-112	-7
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5	-137	-103	-63	-50	-1	-1	833	874	761	459	199	1	-172	-210	-304	-318	-291	-24
1	ZU	7	40	234	338	649	833	874	761	459	199	1	-172	-210	-304	-318	-291	-24
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1	ZU	7	45	253	355	662	830	906	867	585	259	-12	-191	-243	-365	-395	-370	-31
7	-242	-156	-75	-48	-1	-1	781	891	928	676	308	-27	-200	-252	-384	-445	-435	-38
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4	-301	-199	-94	-59	-1	-1	722	846	945	731	381	30	-111	-180	-339	-464	-491	-45
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6	-43	-27	-10	-4	-1													
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1	-61	-37	-15	-8	-1													
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5	-203	-129	-45	-17	-1													
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2	-263	-193	-91	-57	-1													
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8	-243	-291	-149	-102	-1													
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2	-79	-205	-110	-78	-1													
1	ZU	8	90	109	163	326	163	-6	72	188	121	-55	-62	46	190	309	316	22
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5	216	26	14	9	-1													
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1	63	-81	-40	-26	-1													
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8	40	-85	-43	-29	-1													
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0	548	434	228	159	-1													
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1	555	418	209	139	-1													
1	ZU	12	55	-31	-74	-201	-356	-414	-446	-519	-611	-585	-323	-77	258	627	832	71
3	516	386	180	112	-1													
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8	451	346	165	105	-1													
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7	308	319	207	169	-1													
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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9DATE: 90/09/10
TIME: 15:23
PAGE: 55

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DATE: 90/09/10
TIME: 15:23
PAGE: 59DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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1 2 3 4 5 6 7 8 9 0
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-1	1	1																	
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1	SP	2	35	80	75	77	67	44	23	2	-14	-32	-48	-62	-69	-72	-52	-33	-18
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67 89																		
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45 68																		
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77 88																		
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48 69																		

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[illegible]

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DATA SET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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MEMBER: SCIDAT9

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2	3																		
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MEMBER: SCIDAT9

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2	0																	

START
COL

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MEMBER: SCIDAT9

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27	9																		
1 SP	7	90	40	5	12	33	39	19	-4	-2	10	10	-1	-11	-17	-29	-41	-36	-12
11	12																		
1 SP	7	90	50	16	28	43	44	22	-5	-9	7	15	6	-8	-19	-30	-43	-45	-28
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1 SP 1	9 25	60 4	4 3	0 -1	-1 0	2 3	3 1	-2 -5	-6 -5 -3
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COL

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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94	89																		
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83	84																		
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39	37																		
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SP	11	75	40	-2	-9	-16</													

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START

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MEMBER: SCIDAT9

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68 57																		
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63 47																		

COL 1 2 3 4 5 6 7 8 9 10

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42		27																		

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3	3																	
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-4	-5																	
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-5	-6																	
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-4	-5																	
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51 52 70 80 24 23 13 -1 -15 -26 -31 -31 -26 -2 -6 2 8 11 12 12										
1 SP 12 75 -80 4 2 -2 -4 -5 -7 -9 -8 -5 -4 -1 4 3 5 7 8										
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1 SP 12 75 -50 3 1 -4 -4 -3 -4 -6 -6 -3 -4 -2 2 4 5 6 7										
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23 -32 75 60 26 10 -11 -28 -40 -44 -40 -29 -17 -4 7 14 20 23 24 26										
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1 SP 12 80 -40 3 1 0 -1 -2 -3 -4 -4 -3 -3 -1 0 1 2 3 4										
9 10 80 -30 3 2 1 -1 -2 -3 -3 -4 -3 -3 -2 -1 1 2 3 3										
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23	37																		
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-4	32																		
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13	26																		

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4	8									
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21	-16									
1 SD	1	20	50	-17	-6	3	4	-2	-5	2
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1 SD	1	30	-50	4	5	3	2	-1	-2	-2	-3	-2	-2	-3	-2	2
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5 10	1	35	40	39	34	21	4	-11	-19	-21	-17	-14	-14	-17	-20	-19	-12	-2	12
24 36	1	35	50	87	81	56	24	-8	-30	-42	-41	-38	-37	-42	-49	-48	-37	-13	18
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MEMBER: SCIDAT9

[illegible]

[illegible]

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MEMBER: SCIDAT9DATE: 90/09/10
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0	-1																		
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-3	-4																		
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-2	-2																		
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-2	-2																		
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-1	-1																		
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-7	-8																		
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-1	0																		
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START

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[illegible]

[illegible]

START
COL

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2 -2	1															
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2 0	1															
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2 -1	-2	-1														
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2 0	-2	0														
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2 3	9															
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2 14	3															
1 SD	2	30	50	36	42	38	27	11	0	-3	2	4	-1	-12	-27	-38
2 20	0															
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2 36	1															
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2 20	2															
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2 5	6															
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2 5	4															
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2 3	2															
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2 -2	1															
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21	45																		
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4	5																		
1 SD	2	40	-60	2	0	-1	-2	-2	-4	-5	-1	2	3	2	-2	1	1	1	2
3	3																		
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-1	1																		
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3	3																		
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1 SD	2	45	-50	2	-1	-2	-3	-3	-1	-1	-1	1	2	2	2	-1	-1	0	1
1	2																		
1 SD	2	45	-40	2	1	0	-2	-1	-1	0	-1	-1	0	0	1	-1	1	0	0
0	1																		
1 SD	2	45	-30	1	0	2	-1	1	0	0	-2	-1	-1	0	0	1	2	-1	-1
-1	1																		

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[illegible]

DATA SET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

DATE: 90/09/10
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PAGE: 188

SCIDAT9

START

col

DATE: 90/09/10
TIME: 15:23
PAGE: 189DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	+	0								
1 SD	2	65	80	54	42	22	3	-8	-11	-17	-30	-43	-39	-40	-31	-23	-11	8	29
47 55	2	70	-80	3	3	-1	-4	-6	-5	-6	-6	-3	-1	3	4	3	4	3	5
1 SD	3	2	70	-70	5	6	1	-3	-5	-7	-8	-4	-3	1	4	1	3	2	5
1 SD	4	2	70	-60	6	6	1	-3	-6	-8	-9	-5	-3	0	4	2	3	3	6
1 SD	5	2	70	-50	6	5	3	-1	-3	-5	-7	-5	-5	-3	2	1	1	2	5
1 SD	4	2	70	-40	4	3	-1	0	-2	-3	-4	-5	-4	-3	1	1	3	3	4
1 SD	2	2	70	-30	2	0	3	2	0	0	-1	-3	-4	-3	-1	1	4	2	2
1 SD	1	2	70	-20	-2	-3	2	4	5	5	6	4	2	-1	-5	-3	-2	-3	-4
1 SD	-3	1	70	-10	-3	0	3	5	5	5	5	5	4	1	-3	-3	-3	-2	-4
1 SD	-3	2	70	0	-2	-2	-1	2	3	4	4	4	3	1	-1	-3	-3	-1	-2
1 SD	-2	2	70	10	-2	-3	1	3	3	2	3	4	4	2	1	-1	-2	-1	-3
1 SD	-3	2	70	20	-1	-3	-1	1	0	-1	0	3	3	4	4	2	2	0	-3
1 SD	-3	2	70	30	-8	-8	-8	-7	-8	-8	-7	-3	1	6	11	15	17	15	7
1 SD	-5	2	70	40	-15	-19	-17	-15	-16	-18	-19	-15	-6	3	14	25	33	35	26
1 SD	1	2	70	50	-1	-10	-19	-25	-31	-37	-36	-29	-17	-2	16	28	38	42	38
1 SD	15 6	2	70	60	11	-2	-18	-33	-46	-48	-39	-26	-15	1	16	22	27	34	37
1 SD	29 21	2	70	70	12	0	-15	-27	-29	-26	-20	-15	-13	-9	-4	4	14	25	33
1 SD	25 19	2	70	80	39	30	12	-4	-11	-7	-7	-17	-28	-24	-26	-21	-19	-11	4
1 SD	34 39	2	75	-80	4	4	-1	-5	-7	-7	-8	-7	-3	-2	1	5	5	5	6
1 SD	5 4	2	75	-70	5	6	-1	-4	-8	-7	-8	-8	-3	-3	1	6	5	5	4
1 SD	4 5	2	75	-60	7	6	0	-4	-8	-8	-9	-9	-6	-4	-1	5	5	6	5
1 SD	5 7	2	75	-50	7	5	2	-2	-4	-4	-6	-8	-5	-6	-4	2	3	3	5
1 SD	4 6	2	75	-40	5	4	-1	0	-3	-3	-4	-5	-4	-4	-4	0	1	5	4
1 SD	2 5	2	75	-30	2	1	3	2	1	1	0	-4	-3	-4	-4	-3	-1	5	3
1 SD	0 1	2	75	-20	-1	-3	2	5	7	7	7	4	2	-2	-6	-6	-4	-3	-5
1 SD	-3 -1	2	75	-10	-3	-4	-1	4	7	8	7	6	4	0	-4	-5	-3	-2	-4
1 SD	-3 -2	2	75	-3	-4	-1	4	7	8	7	6	4	0	-4	-5	-3	-2	-4	-4

[illegible]

COL

COL

289

	1	2	3	4	5	6	7	8	9	+								
1 SD 3	30	20	3	1	3	2	-2	-4	-2	0	-1	0	0	-3	0	2	1	-1
1 SD 1	3	30	30	9	8	3	-1	-2	-2	-2	-4	-5	-7	-6	-5	-1	0	1
1 SD 3	30	40	19	21	20	14	9	4	0	-1	-6	-11	-18	-20	-19	-14	-10	-3
1 SD 4	30	50	37	43	44	38	29	19	11	4	-5	-18	-32	-45	-48	-45	-34	-18
1 SD 2	30	60	59	69	71	62	49	32	18	6	-9	-27	-48	-70	-81	-78	-60	-32
1 SD 3	30	70	72	81	82	73	57	35	18	2	-15	-36	-58	-81	-93	-89	-69	-32
1 SD 9	30	80	58	50	32	28	49	31	16	2	-18	-32	-51	-55	-48	-53	-36	-18
1 SD 7	35	-80	9	11	10	4	5	0	-7	-12	-12	-12	-12	-12	-8	-7	-1	3
1 SD 8	35	-70	12	10	8	7	1	-5	-9	-11	-12	-11	-11	-11	-8	-5	-1	5
1 SD 11	35	-60	10	5	4	2	0	-5	-7	-9	-7	-6	-4	-5	-5	-3	2	7
1 SD 12	35	-50	5	3	0	-1	-3	-6	-7	-7	-5	-3	-1	1	1	2	4	6
1 SD 3	35	-40	1	2	1	-1	-2	-3	-3	-3	-1	0	1	1	1	1	3	2
1 SD 1	35	-30	1	1	2	-1	-1	-1	-1	0	1	1	1	-1	-1	0	1	-1
1 SD -2	35	-20	2	2	1	2	1	-1	-2	-1	0	-1	-3	-1	-1	0	1	-1
1 SD 3	35	-10	2	2	2	2	1	-1	-2	-2	0	-1	-2	-2	-2	0	0	0
1 SD 1	35	0	2	2	2	1	0	-1	-2	-1	-1	-1	-1	-1	-1	-1	-1	0
1 SD 1	35	10	1	1	2	1	-1	-3	-2	0	0	0	0	-1	0	-1	1	1
1 SD 1	35	20	2	1	2	1	-1	-1	-1	0	0	0	0	0	0	0	-1	-1
1 SD 3	35	30	7	6	4	1	-2	-3	-3	-2	-2	-2	-2	-2	-3	0	0	2
1 SD 2	35	40	23	21	18	10	2	-4	-7	-9	-11	-15	-18	-18	-16	-9	-1	6
1 SD 12	35	50	55	57	53	42	27	10	-3	-14	-26	-39	-49	-56	-53	-41	-21	1
1 SD 22	35	60	86	96	94	80	57	30	6	-17	-40	-61	-80	-93	-93	-79	-50	-12
1 SD 26	35	70	97	110	110	95	69	37	9	-18	-43	-67	-88	-105	-108	-95	-65	-20
1 SD 26	35	80	62	68	77	70	54	31	10	-11	-33	-47	-65	-70	-67	-61	-43	-19
1 SD 9	40	-80	8	7	8	5	9	10	-3	-10	-14	-14	-13	-10	-6	-5	1	6
1 SD 9	40	-70	11	8	5	3	1	-5	-9	-11	-11	-11	-8	-7	-3	0	3	8

DATASET: CWEJ412 GRAM0090 DATA
MEMBER: SCIDAT9

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START
COL 1-----2-----3-----4-----5-----6-----7-----8-----9-----+-----0
1 SD 3 45 30 -5 -7 -7 -8 -8 -7 -3 2 6 8 10 10 8 8 4 1
-3 -4
1 SD 3 45 40 2 -4 -9 -16 -20 -22 -19 -14 -7 0 7 12 16 20 19 16
11 8
1 SD 3 45 50 37 27 15 -1 -17 -31 -39 -41 -38 -32 -23 -12 2 17 28 34
37 40
1 SD 3 45 60 75 70 55 30 1 -25 -44 -57 -64 -63 -57 -48 -31 -10 13 37
54 69
1 SD 3 45 70 93 90 76 52 17 -12 -35 -53 -64 -70 -68 -56 -35 -7 25
51 75
1 SD 3 45 80 47 48 62 51 25 5 -12 -24 -38 -41 -45 -46 -35 -19 -18 -5
15 35
1 SD 3 50 -80 1 1 1 -5 10 11 -5 -9 -13 -12 -9 -3 2 -1 5 9
8
1 SD 3 50 -70 3 -1 -7 -8 -8 -12 -12 -11 -5 -1 4 5 8 9 8 9
10 9
1 SD 3 50 -60 -1 -6 -8 -11 -13 -12 -9 -5 5 9 10 9 6 5 4 6
6 4
1 SD 3 50 -50 -3 -4 -5 -4 -5 -5 -3 0 5 8 8 7 5 2 1 -1
-2 -4
1 SD 3 50 -40 1 0 -1 -1 -1 -1 -1 1 2 2 2 1 -1 -2 -1 -1
-1 -1
1 SD 3 50 -30 2 1 2 1 1 -1 -2 -1 0 0 -2 0 -1 -1 1 0
0
1 SD 3 50 -20 3 2 2 1 -1 -3 -4 -2 -1 -1 -2 0 -1 -1 0 1
2
1 SD 3 50 -10 1 1 2 2 1 0 -2 0 0 -1 -2 -2 -2 -2 -1 1
2
1 SD 3 50 0 1 1 2 3 1 1 1 2 1 -1 -2 -2 -3 -3 -2 -1
1
1 SD 3 50 10 1 2 4 4 2 0 2 4 3 -1 -3 -4 -4 -4 -3 -1
1
1 SD 3 50 20 -3 -3 -1 -1 -1 0 3 5 5 4 3 2 1 0 -2 -3
-3 -3
1 SD 3 50 30 -9 -11 -11 -11 -9 -6 -1 4 9 11 13 13 11 10 4 0
-5 -8
1 SD 3 50 40 -6 -14 -19 -24 -27 -26 -20 -12 -1 8 18 24 28 29 23 16
7 1
1 SD 3 50 50 21 7 -7 -21 -36 -46 -48 -43 -33 -20 -4 12 28 40 43 41
35 30
1 SD 3 50 60 59 46 27 2 -25 -46 -58 -62 -60 -50 -35 -18 2 21 37 51
56 60
1 SD 3 50 70 75 65 46 23 -9 -33 -48 -58 -61 -57 -49 -40 -25 -3 18 41
54 68
1 SD 3 50 80 38 38 52 40 13 -5 -21 -29 -38 -37 -35 -34 -21 -2 -6 2
19 31
1 SD 3 55 -80 1 5 12 8 -17 -14 -3 -2 -7 -1 -2 2 2 2 3 6
4 3
1 SD 3 55 -70 -4 -8 -10 -8 -6 -7 -6 2 5 9 8 8 8 6 4
4 1
1 SD 3 55 -60 -9 -12 -10 -9 -7 -3 2 13 16 14 11 6 3 0 1
1 -5

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0								
1 SD	4	25	-20	3	3	2	1	0	-1	-3	-2	-2	-3	-2	0	1	2	1
2	3																	
1 SD	4	25	-10	2	2	2	1	0	-1	-2	-2	-2	-3	-2	-1	1	1	3
3	3																	
1 SD	4	25	0	2	1	1	0	0	-1	-2	-2	-2	-1	-2	-1	1	1	3
3	2																	
1 SD	4	25	10	2	1	1	0	-1	-3	-2	-2	-1	-2	-1	0	1	3	3
3	2																	
1 SD	4	25	20	3	1	2	1	-2	-3	-3	-2	-2	0	-3	1	2	5	4
3	3																	
1 SD	4	25	30	6	5	4	1	-2	-3	-4	-5	-6	-5	-3	0	2	3	4
5	6																	
1 SD	4	25	40	8	9	9	8	5	1	-2	-4	-6	-7	-8	-5	-2	-1	-3
0	5																	
1 SD	4	25	50	4	9	12	13	12	9	6	5	2	-1	-4	-5	-7	-10	-14
10	-2																	-15
1 SD	4	25	60	2	8	12	13	12	12	11	11	10	5	1	-4	-11	-17	-22
15	-6																	-21
1 SD	4	25	70	1	7	9	10	9	8	7	7	6	4	1	-3	-9	-13	-16
-9	-4																	-13
1 SD	4	25	80	2	3	7	1	2	2	1	0	2	1	1	-4	-1	-4	-5
-1	0																	-5
1 SD	4	30	-80	11	16	17	22	6	14	0	1	-4	-9	-15	-17	-16	-14	-13
-1	7																	-3
1 SD	4	30	-70	17	21	21	22	9	11	-2	-5	-10	-15	-19	-19	-17	-14	-11
4	12																	-1
1 SD	4	30	-60	17	18	17	15	6	4	-5	-9	-13	-14	-16	-14	-12	-9	-6
7	14																	2
1 SD	4	30	-50	15	14	11	7	3	-2	-6	-11	-12	-12	-11	-7	-5	-4	-1
9	14																	4
1 SD	4	30	-40	6	6	4	2	-1	-3	-6	-6	-6	-4	-4	-1	0	1	2
4	5																	3
1 SD	4	30	-30	4	3	3	2	0	-2	-5	-4	-3	-2	-3	-1	0	2	2
2	2																	1
1 SD	4	30	-20	3	3	2	2	1	-1	-3	-2	-2	-2	-3	-1	-1	1	1
2	3																	
1 SD	4	30	-10	3	3	3	2	0	-1	-2	-2	-1	-2	-2	-1	0	0	1
1	3																	
1 SD	4	30	0	2	2	2	1	0	-1	-2	-2	-1	0	-1	-1	0	1	1
1	2																	
1 SD	4	30	10	2	1	2	1	-1	-3	-3	-1	0	0	1	-1	1	2	-1
1	2																	
1 SD	4	30	20	2	0	2	2	-2	-3	-2	0	0	0	1	-3	0	3	1
0	0																	-1
1 SD	4	30	30	4	4	4	1	-2	-2	-2	-1	-1	-1	-2	-2	-2	1	1
1	3																	
1 SD	4	30	40	8	8	8	5	2	0	-3	-3	-4	-5	-6	-7	-7	-3	-2
1	4																	1
3	7																	
1 SD	4	30	50	14	15	15	13	9	5	1	-1	-4	-8	-11	-13	-14	-12	-10
2	10																	-5
1 SD	4	30	60	14	17	18	16	13	9	5	3	-2	-7	-11	-17	-20	-20	-16
0	9																	-10

COL

1 2 3 4 5 6 7 8 9 0

1	SD	4	30	70	8	12	14	13	9	7	4	2	-1	-4	-7	-10	-13	-13	-11	-
-1	4	4	30	80	7	6	20	2	3	2	1	0	0	-2	-3	-8	-5	-9	-7	-5
1	SD	4	30	80	7	6	20	2	3	2	1	0	0	-2	-3	-8	-5	-9	-7	-5
0	1	1	35	-80	18	22	20	20	20	5	-1	-8	-14	-19	-21	-20	-18	-13	-8	-2
1	SD	4	35	-70	24	25	24	17	9	0	-9	-14	-17	-20	-21	-20	-16	-12	-5	4
7	15	4	35	-60	19	17	12	6	-1	-9	-14	-16	-14	-14	-12	-9	-6	-2	3	9
1	SD	4	35	-50	9	5	1	-2	-6	-10	-11	-12	-8	-5	-1	2	3	5	6	9
1	SD	4	35	-40	2	0	-1	-3	-5	-5	-5	-4	-3	1	1	3	3	4	4	4
3	2	2	35	-30	2	1	2	0	-1	-1	-2	-2	-3	0	-2	0	1	2	1	1
1	SD	4	35	-20	3	3	3	2	1	-1	-2	-2	-2	-2	-3	-2	-1	1	0	0
1	SD	4	35	-10	3	3	3	2	1	0	-2	-2	-1	-2	-2	-2	-1	0	0	0
1	SD	4	35	0	3	3	2	1	1	0	-1	-2	-1	-1	-1	-1	-1	0	0	0
1	SD	4	35	10	2	2	2	1	-1	-2	-2	-1	0	0	0	-1	0	1	0	-1
1	SD	4	35	20	3	2	2	1	0	0	-1	0	1	0	0	-1	-1	0	-2	-1
-1	1	1	35	30	2	3	3	3	1	1	0	1	1	1	0	-1	-3	-2	-4	-2
1	SD	4	35	40	6	6	5	4	2	1	-1	-1	-1	-2	-3	-5	-4	-3	0	0
1	SD	4	35	50	16	15	13	9	5	1	-3	-5	-7	-9	-12	-14	-13	-10	-5	2
7	13	4	35	60	21	22	20	16	10	4	-1	-6	-11	-15	-19	-21	-20	-15	-8	1
1	SD	4	35	70	16	18	18	15	9	4	-1	-5	-9	-12	-14	-16	-15	-13	-7	0
5	11	4	35	80	13	14	18	9	3	0	-1	-3	-4	-8	-7	-10	-8	-7	-7	-4
1	SD	4	35	80	13	14	18	9	3	0	-1	-3	-4	-8	-7	-10	-8	-7	-7	-4
2	3	4	40	-80	12	14	13	14	24	10	-2	-8	-13	-15	-16	-14	-13	-9	-5	-2
1	SD	4	40	-70	15	15	12	6	0	-5	-10	-11	-10	-11	-10	-9	-7	-4	0	6
1	SD	4	40	-60	10	4	0	-5	-11	-15	-15	-13	-7	-4	0	3	4	7	9	11
1	SD	4	40	-50	0	-5	-9	-11	-13	-14	-11	-7	-1	4	9	12	11	11	10	8
5	3	3	40	-40	-3	-5	-6	-6	-7	-6	-3	0	3	6	7	8	7	6	4	2
1	SD	4	40	-30	1	0	1	-1	-1	-1	-1	0	0	1	0	1	1	2	1	0
0	-2	4	40	-20	3	3	3	3	2	0	-2	-2	-1	-2	-3	-2	-1	0	0	0
1	SD	4	40	-20	3	3	3	3	2	0	-2	-2	-1	-2	-3	-2	-1	0	0	0
1	SD	4	40	-20	3	3	3	3	2	0	-2	-2	-1	-2	-3	-2	-1	0	0	0
1	SD	4	4																	

START COL	1	2	3	4	5	6	7	8	9	0							
1 SD	4	40	-10	2	3	4	3	2	0	-2	-1	-1	-3	-2	-1	0	0
1 SD	1	2															
1 SD	4	40	0	2	3	3	2	1	0	-1	-2	-1	-1	-1	-1	-1	0
1 SD	0	1															
1 SD	4	40	10	2	3	3	2	0	-2	-2	-1	0	0	-1	-1	0	-1
1 SD	1	1															
1 SD	4	40	20	3	3	2	2	0	0	0	0	1	1	0	-2	-1	-2
1 SD	-1	1															
1 SD	4	40	30	1	2	2	2	2	1	2	4	3	2	0	-2	-3	-6
1 SD	-5	-2															
1 SD	4	40	40	1	1	2	2	1	1	0	2	3	2	1	-2	-3	-3
1 SD	0	0															
1 SD	4	40	50	10	9	7	4	2	0	-3	-3	-4	-4	-6	-9	-8	-5
1 SD	6	9															
1 SD	4	40	60	19	18	15	10	5	0	-5	-9	-13	-14	-17	-17	-14	-9
1 SD	12	17															
1 SD	4	40	70	19	19	17	13	5	-2	-6	-11	-13	-15	-16	-13	-8	-2
1 SD	9	14															
1 SD	4	40	80	17	20	21	9	-1	-3	-4	-5	-8	-11	-11	-10	-5	-6
1 SD	6	6															
1 SD	4	45	-80	5	7	5	8	25	13	-1	-6	-9	-10	-10	-8	-5	-4
1 SD	1	5															
1 SD	4	45	-70	6	4	2	-2	-6	-8	-9	-6	-3	-1	-1	0	1	2
1 SD	8	8															
1 SD	4	45	-60	1	-6	-11	-14	-16	-17	-12	-6	3	7	10	11	10	8
1 SD	7	5															
1 SD	4	45	-50	-8	-13	-16	-17	-16	-14	-7	-1	8	14	18	19	15	12
1 SD	-1	-4															
1 SD	4	45	-40	-8	-10	-9	-9	-8	-4	0	5	9	11	11	11	8	5
1 SD	-5	-7															
1 SD	4	45	-30	-1	-2	0	-1	0	1	1	1	2	3	1	1	1	-1
1 SD	-2	-2															
1 SD	4	45	-20	2	3	4	4	3	1	-1	-1	-1	-1	-4	-2	-2	-1
1 SD	0	1															
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1 SD	-3	-3															
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1 SD	1	3															
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1 SD	10	13															
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9	11																		
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DATASET: CWEJ412.GRAMOD90.DATA
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2	O	2																		
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2	O	2																		
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2	O	2																		
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2	O	2																		
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1 2 3 4 5 6 7 8 9 0

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-4	-3																		
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26	29																		
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14	16																		
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SCIDAT9

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1 2 3 4 5 6 7 8 9 0

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1 SD	5	75	-10	4	-1	-4	-3	-2	-3	-5	-5	-5	-3	-2	-1	3	4	5	5
5	6																		
1 SD	5	75	0	3	-3	-4	-5	-3	-3	-3	-3	-2	-3	-2	0	3	5	5	5
5	4																		
1 SD	5	75	10	2	-4	-5	-3	-3	-1	-1	4	3	2	0	-2	2	1	1	0
2	2																		
1 SD	5	75	20	2	-3	-2	0	1	2	2	6	6	3	2	-4	-2	-2	-4	-4
-3	1																		
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-4	-1																		
1 SD	5	75	40	1	-2	1	3	5	7	4	5	4	1	-4	-6	-7	-4	-4	-1
-2	-2																		
1 SD	5	75	50	4	4	4	4	6	6	4	2	1	-1	-5	-6	-6	-7	-4	
-1	2																		
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17	9																		
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[illegible]

[illegible]

COL 1 2 3 4 5 6 7 8 9 0

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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7	13																		
1 SD	6	30	-70	33	36	35	29	21	7	-6	-18	-27	-33	-35	-31	-27	-20	-7	6
17	25																		
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DATASET: CWEJ412 GRAM0090.DAT
MEMBER: SCIDAT9

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[illegible]

COL 1 2 3 4 5 6 7 8 9 0

[illegible]

DATASET: CWEJ412.GRAMOD90.DATA
 MEMBER: SCIDAT9

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 TIME: 15:23
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23	-22																			
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14	13																			
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COL

[illegible]

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TIME: 15.23
PAGE: 231DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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40 46																				
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23 37																				
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32 39																				
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20 21																				
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12 2																				
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34 23																				
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5 22																				
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2 1																				
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5 1																				

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1	SD	7	25	-60	29	31	34	35	33	26	13	-5	-24	-36	-40	-40	-37	-30	-18	-4																								
11		22																																										
1	SD	7	25	-50	25	25	24	21	17	9	-1	-12	-22	-25	-24	-22	-20	-16	-8	1																								
12		21																																										
1	SD	7	25	-40	9	9																																						

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PAGE: 233DATASET: CWEJ412.GRAM0090.DATA
MEMBER: SCIDAT9

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16	20																		
1 SD	7	30	-30	8	7	5	2	-1	-5	-7	-7	-8	-5	-5	-2	0	1	2	3
6	8																		
1 SD	7	30	-20	2	3	3	2	1	-1	-2	-2	-2	-2	-3	-2	0	0	1	1
1	2																		
1 SD	7	30	-10	-1	-1	0	1	0	-1	-1	1	2	1	-1	-1	0	0	-1	-1
-1	-1																		
1 SD	7	30	0	0	1	1	1	0	0	1	1	1	1	1	0	0	0	-2	-2
-1	-1																		
1 SD	7	30	10	2	1	2	3	-3	-4	-2	2	1	1	1	-3	0	-1	-1	-3
1	0																		
1 SD	7	30	20	4	-1	4	4	-1	-2	0	3	1	1	-1	-9	-2	-2	2	-2
-1	-2																		
1 SD	7	30	30	1	2	3	2	-2	-1	-1	1	0	0	-3	-4	-3	-1	2	2
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2	3																		
1 SD	7	30	60	2	0	0	-1	-2	-3	-3	0	0	0	1	-1	-2	-1	1	2
2	3																		
1 SD	7	30	70	0	-1	-2	-3	-3	-3	-2	-1	0	1	2	1	1	2	3	3
3	2																		
1 SD	7	30	80	1	-2	-3	-4	-3	-3	-2	-1	0	1	1	1	1	1	3	4
4	3																		
1 SD	7	35	-80	13	15	17	10	12	6	1	-6	-10	-12	-13	-13	-15	-11	-6	-1
6	11																		
1 SD	7	35	-70	30	25	22	20	10	1	-9	-18	-26	-31	-31	-27	-21	-10	1	12
25	31																		
1 SD	7	35	-60	41	22	17	13	4	-6	-18	-31	-43	-48	-45	-31	-15	1	18	32
45	47																		
1 SD	7	35	-50	38	25	11	2	-6	-18	-30	-41	-47	-44	-34	-19	-2	13	27	39
46	47																		
1 SD	7	35	-40	17	9	0	-5	-9	-13	-17	-20	-22	-18	-13	-5	4	11	16	21
25	24																		
1 SD	7	35	-30	6	3	0	-3	-3	-6	-7	-6	-6	-3	-2	0	3	2	3	5
7	8																		
1 SD	7	35	-20	0	0	0	1	2	1	0	1	1	1	-1	0	0	0	-1	-2
-2	0																		
1 SD	7	35	-10	-2	-2	-1	0	1	0	1	2	3	4	2	1	1	-1	-2	-2
-2	-1																		
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-2	-1																		
1 SD	7	35	10	3	2	3	3	0	-2	-1	2	1	1	-1	-3	-2	-2	-2	-3
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-3	1																		
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-2	1																		

START
COL

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MEMBER: SCIDAT9

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-4	-10																		
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-5	-6																		
1 SD	7	45	-10	-5	-4	-3	-2	0	1	2	2	2	2	2	3	3	2	0	-2
-4	-3																		
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-2	-3																		
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-1	-1																		
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-2	-1																		
1 SD	7	45	30	2	3	5	6	4	4	5	5	3	0	-3	-6	-8	-7	-6	-4
-3	0																		
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-1	2																		
1 SD	7	45	80	2	13	21	5	0	-1	-2	-2	-3	-5	-4	-5	-3	-4	-7	-4
-4	-1																		
1 SD	7	50	-80	-2	-6	-7	-5	1	-1	-8	-7	0	-2	2	6	5	9	9	4
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3	3																		
1 SD	7	50	-60	-24	-42	-41	-37	-33	-23	-12	-4	4	13	23	33	41	42	39	24
11	3																		
1 SD	7	50	-50	-33	-47	-52	-46	-36	-29	-19	-9	2	16	34	47	54	53	44	28
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1 SD	7	50	-40	-36	-44	-44	-35	-23	-12	-2	6	13	23	33	39	41	36	25	11
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10	-17																		
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-2	-3																		
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-1	-2																		
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COL

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1	SD	7	75	30	7	6	10	13	11	12	10	6	2	-5	-11	-16	-19
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1	SD	7	75	40	7	7	8	8	7	7	3	3	1	-3	-10	-14	-13
3	6																
1	SD	7	75	50	10	11	11	9	8	7	4	-2	-2	-5	-11	-13	-12
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1	SD	7	75	70	-1	4	5	5	4	3	5	8	10	8	4	-2	-7
-9	-6																
1	SD	7	75	80	5	5	7	8	8	7	6	7	6	-5	1	-3	-7
-5	3																
1	SD	7	80	-80	-26	-34	-37	-36	-30	-20	-9	3	15	24	31	36	36
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1	SD	7	80	-40	-36	-36	-26	-9	9	23	29	27	20	12	6	5	8
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1	SD	7	80	-20	-3	-1	2	5	8	7	4	-1	-5	-7	-7	-4	-1
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1	SD	7	80	10	-1	3	11	14	12	6	3	0	-6	-11	-13	-11	-8
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1	SD	7	80	20	-2	5	14	14	7	2	2	3	-2	-7	-10	-11	-11
4	-2																
1	SD	7	80	30	4	6	14	19	15	9	5	3	-2	-9	-12	-16	-20
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7	10																
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-6	1																

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COL

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-1	-2																		
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0	2																		
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2	3																		
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3	3																		
1 SD	8	30	60	2	2	1	0	-1	-3	-2	-1	-1	1	0	-1	-2	-1	1	2
3	3																		
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3	3																		
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3	2																		
1 SD	8	35	-70	43	35	26	11	-3	-17	-24	-29	-32	-35	-32	-25	-18	-7	7	22
18	24																		
1 SD	8	35	-60	45	27	12	-8	-21	-29	-31	-28	-24	-23	-19	-15	-12	-2	12	29
38	44																		
1 SD	8	35	-50	29	16	0	-17	-26	-27	-22	-15	-8	-3	0	-1	-4	-2	5	17
43	48																		
1 SD	8	35	-40	12	4	-5	-14	-17	-15	-9	-2	4	7	6	3	-1	-2	1	6
27	32																		
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12	14																		
1 SD	8	35	-20	0	1	1	1	1	0	0	2	3	3	1	1	-1	-2	-2	-2
1	3																		
1 SD	8	35	-10	0	0	0	0	1	-1	-2	-1	0	1	-1	0	1	0	-1	0
-2	0																		
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1	1																		
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2	1																		
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1 SD	8	35	40	2	3	4	5	4	4	2	2	2	0	-4	-6	-7	-5	-3	-2
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1 SD	8	35	50	3	3	3	4	4	3	2	1	1	0	-3	-4	-6	-4	-4	-2
-2	1																		
1 SD	8	35	60	2	2	3	3	3	2	2	2	2	1	-1	-3	-5	-4	-4	-3
-2	2																		
1 SD	8	35	70	1	2	2	2	2	2	2	2	2	2	0	-2	-4	-4	-3	-2
-1	1																		
1 SD	8	35	80	-2	2	4	1	0	0	0	1	1	0	2	-1	-1	-1	-1	-2
-1	-1																		
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23	24																		

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-1	2																			
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-2	2																			
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-3	0																			
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-2	0																			
1	SD	8	45	60	3	5	6	6	5	4	4	3	1	1	-2	-5	-6	-7	-7	-6
-3	0																			
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-2	1																			
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1	SD	8	50	-80	15	5	-3	-7	-17	-18	-29	-25	-21	-20	-10	-2	10	16	30	33
25	22																			
1	SD	8	50	-70	13	-4	-19	-33	-41	-42	-38	-27	-17	-10	2	16	25	33	39	40
41	29																			
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27	10																			
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14	2																			
1	SD	8	50	-40	-12	-21	-26	-25	-17	-6	5	13	16	16	13	10	9	9	9	10
6	-2																			
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-2	-7																			
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-5	-5																			
1	SD	8	50	-10	-2	-1	0	1	2	1	1	1	1	1	-1	1	1	-1	-1	0
-1	-2																			
1	SD	8	50	0	2	2	2	2	1	-1	-1	-1	-2	-2	-2	-1	-1	-1	-1	1
2	1																			
1	SD	8	50	10	4	3	3	3	-1	-3	-3	-1	-3	-3	-3	-2	-2	0	1	
2	2																			
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-1	2																			
1	SD	8	50	30	5	5	7	6	4	4	3	3	1	-2	-5	-7	-8	-8	-7	-4
-2	2																			
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29	22																			
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37	23																			

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MEMBER: SCIDAT9

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25	-28																				
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10	-13																				
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-3	-6																				
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2	2																				
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4	7																				
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-2	-1																				
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16	-9																				
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39	-32																				
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25	-24																				
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8	7																				
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6	5																				
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4	4																				

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[illegible]

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3	3	9	25	0	2	2	2	1	0	-1	-2	-2	-2	-1	-1	-1	0	1	0	1
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-2	1	9	25	80	0	-1	0	-2	-1	-2	-1	0	2	2	3	2	2	2	-1	-2
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0	-1	9	30	-70	46	39	26	11	-7	-25	-35	-41	-41	-36	-30	-21	-10	1	15	30
15	18	9	30	-60	55	42	27	9	-10	-27	-36	-47	-43	-34	-24	-23	-15	-3	6	35
39	44	9	30	-50	46	37	22	2	-16	-30	-43	-48	-40	-33	-23	-13	-2	5	18	33
50	43	9	30	-40	22	17	9	-1	-10	-18	-23	-23	-22	-16	-11	-4	2	7	12	18
43	48	9	30	-30	8	7	2	-2	-5	-10	-12	-10	-9	-6	-5	0	3	6	8	8
22	23	9	30	-20	3	2	1	0	-2	-3	-5	-3	-2	0	-1	0	2	2	3	2
9	10	9	30	-10	1	2	2	1	1	0	-2	-3	-1	0	-1	-1	0	1	0	0
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START	COL	1	2	3	4	5	6	7	8	9	0									
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1	SD	9	65	-80	-32	-43	-47	-49	-42	-30	-14	5	25	39	49	49	43	38	26	10
-5	-19	9	65	-70	-41	-49	-51	-48	-36	-21	-2	22	42	55	59	50	36	26	14	-3
16	-30	9	65	-60	-27	-35	-34	-31	-18	-3	10	28	42	44	40	26	10	9	-2	-14
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19	-21	9	65	-40	-24	-23	-20	-13	-4	4	13	23	29	32	27	19	10	0	-8	-15
17	-25	9	65	-30	-12	-7	-2	4	10	12	14	17	17	16	9	1	-4	-9	-13	-17
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19	-30	9	70	-70	-51	-51	-46	-39	-22	-3	18	39	56	64	62	47	27	12	-3	-22
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23	-26	9	70	-20	2	5	8	12	13	10	4	2	1	-1	-6	-10	-9	-9	-8	-7
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START

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46 57									
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46 60									
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23 29									
1 SD 10 45 -80 34 21 11 14 -11 -6 -33 -36 -38 -35 -30 -21 -5 11 23 31									
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1 SD 10 45 40 2 -5 -11 -15 -16 -14 -10 -5 0 1 4 7 9 12 13 13									
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41 39									
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START
COL -----1-----2-----3-----4-----5-----6-----7-----8-----9-----+-----0

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7	9																			
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2	4																			
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-7	-3																			
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13	1																			
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11 11
1 SD 10 85 70 6 5 0 -11 -23 -26 -15 0 10 15 9 6 3 2 3 5
6 6
1 SD 10 85 80 -4 -13 -14 -2 9 5 -10 -18 -12 31 2 5 8 9 5 -1
-1 1
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8 14
1 SD 10 90 -70 23 32 32 26 10 -6 -21 -29 -26 -19 -13 -6 -4 -4 -2
3 12
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12 -7
1 SD 10 90 -40 17 20 21 15 8 3 -1 -9 -10 -13 -14 -14 -12 -12 -7 -3
3 11
1 SD 10 90 -30 30 24 13 2 -6 -13 -19 -22 -23 -22 -20 -15 -10 -2 11
21 26
1 SD 10 90 -20 14 12 6 2 -5 -9 -10 -12 -12 -10 -8 -4 -1 3 7 10
14 14
1 SD 10 90 -10 7 10 -4 -12 -12 -6 -18 -19 -28 -5 20 19 12 7 5 16
5 5
1 SD 10 90 0 10 6 -6 -8 -6 -6 -17 -21 -24 -7 11 13 12 8 5 9
8 10
1 SD 10 90 10 13 2 -5 -2 1 -4 -14 -21 -19 -8 2 8 10 8 1 3
10 18
1 SD 10 90 20 8 0 3 9 6 -3 -5 -4 -4 -12 -15 -7 3 4 -1 -1
7 13
1 SD 10 90 30 1 6 15 17 6 -5 -5 -2 -4 -10 -10 -2 2 -1 -5 -5
0 2
1 SD 10 90 40 -13 -13 -2 3 -4 -5 6 16 16 11 6 1 -3 -5 -4 -1
0 -6
1 SD 10 90 50 5 14 8 -14 -31 -28 -9 7 19 24 21 10 1 4 5 -6 -
15 -13
1 SD 10 90 60 8 5 -6 -18 -27 -24 -12 1 10 17 15 8 5 7 7 -1
-2 3
1 SD 10 90 70 5 10 8 -1 -12 -15 -4 11 19 21 9 0 -10 -14 -10
-6 0
1 SD 10 90 80 -6 -13 -10 4 17 12 -5 -15 -9 33 2 3 4 4 -1 -8
-6 -3
1 SD 11 20 -80 5 9 13 15 14 10 7 3 1 -5 -10 -12 -14 -13 -11 -7
-4 0
1 SD 11 20 -70 9 17 24 28 26 20 13 6 0 -10 -19 -24 -25 -23 -20 -13
-6 1
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-3 5
1 SD 11 20 -50 16 22 25 25 20 13 4 -3 -8 -15 -21 -23 -22 -18 -13 -6
2 9
1 SD 11 20 -40 6 8 9 8 5 0 -3 -6 -6 -7 -6 -5 -4 -1 -1 0
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1 SD 11 20 -30 0 -1 -1 -2 -4 -4 -3 -2 -1 0 3 4 4 5 3 0
2 0
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DATASET: CWEJ412.GRAMDD90.DATA
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TIME: 15:23
PAGE: 274

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20 45	45	-80	8	10	11	17	-2	1	-9	-9	-10	-9	-9	-8	-6	-3	2	4
1 SD 11	45	-70	9	6	3	-2	-7	-8	-9	-11	-9	-8	-6	-3	1	6	10	10
6 10	45	-60	6	2	-3	-8	-11	-11	-11	-11	-7	-4	-1	1	5	10	13	11
1 SD 11	45	-50	2	-1	-3	-6	-8	-9	-8	-6	-4	-1	1	3	6	8	10	9
11 10	45	-40	1	1	0	-1	-1	-2	-1	-1	-3	-3	-2	-1	1	3	4	3
1 SD 11	45	-30	1	2	2	1	1	1	0	-1	-3	-2	-1	-2	0	2	2	1
2	45	-20	2	3	2	1	0	-2	-4	-4	-3	-2	-1	0	1	2	2	1
1 SD 11	45	-10	1	1	1	0	-1	-3	-4	-4	-2	0	0	1	2	3	2	2
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1 SD 11	45	10	-4	-5	-5	-4	-4	-4	-2	0	3	5	6	6	6	4	2	1
1	45	20	-9	-10	-8	-6	-4	-2	2	6	8	10	11	10	8	4	1	-3
1 SD 11	45	30	-10	-13	-16	-18	-17	-13	-7	-1	5	10	14	18	18	17	14	9
-6 -8	45	40	17	6	-5	-16	-24	-29	-30	-28	-23	-19	-10	1	12	22	31	36
34 27	45	50	76	63	43	20	-4	-27	-45	-58	-67	-70	-64	-51	-31	-6	23	50
1 SD 11	45	60	131	123	101	67	28	-18	-53	-77	-98	-109	-110	-101	-78	-46	-5	41
71 79	45	70	131	129	111	79	40	-8	-43	-71	-92	-104	-110	-105	-88	-58	-20	27
86 118	45	80	67	86	90	84	27	-4	-30	-48	-61	-66	-73	-70	-50	-35	-13	11
1 SD 11	50	-80	-1	4	7	13	-1	9	3	2	1	-1	-4	-5	-6	-5	-3	-4
35 56	50	-70	-2	0	1	0	1	3	4	3	3	2	2	0	-1	-1	-1	-4
1 SD 11	50	-60	-3	-3	-3	-3	-3	0	1	1	4	5	5	3	2	3	2	-1
-2 -2	50	-50	-3	-3	-2	-2	-1	-1	0	0	0	1	2	2	3	2	2	1
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0 1	50	-10	1	0	0	-1	-1	-3	-3	-4	-2	-1	0	1	2	3	2	2
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-3	-11									
1 SD	11	50	40	11	0	-10	-20	-28	-32	-32
29	21									
1 SD	11	50	50	71	57	37	12	-13	-36	-55
73	77									
1 SD	11	50	60	134	119	92	53	11	-36	-70
01	126									
1 SD	11	50	70	137	127	103	65	23	-27	-62
91	122									
1 SD	11	50	80	73	87	86	75	19	-13	-40
46	66									
1 SD	11	55	-80	-4	0	5	14	3	12	8
-7	-4									
1 SD	11	55	-70	-8	-4	1	4	7	12	13
14	-11									
1 SD	11	55	-60	-8	-5	-1	2	5	9	10
11	-9									
1 SD	11	55	-50	-5	-3	-1	1	4	4	4
-5	-5									
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1 SD	11	55	0	-3	-3	-3	-3	-2	-3	-2
-1	-3									
1 SD	11	55	10	-9	-9	-8	-6	-5	-3	0
-5	-8									
1 SD	11	55	20	-18	-17	-15	-11	-7	-1	5
15	-17									
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11	-17									
1 SD	11	55	40	3	-6	-14	-22	-28	-39	-37
21	12									
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1 SD	11	55	60	147	126	91	45	-4	-52	-91
18	146									
1 SD	11	55	70	146	135	105	61	12	-34	-75
08	137									
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50	66									

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18	-10																		
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11	-4																		
1	SD 11	75	-50	-1	4	9	12	12	11	7	2	-1	-3	-4	-6	-7	-7	-7	-
-6	-5																		
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2	2																		
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-1	-1																		
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63	53																		
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43	41																		
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-8	-4																		
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1 SD 11 80 40 5 -7 -18 -23 -21 -13 -5 3 9 13 13 10 2 0 5 9	12									
1 SD 11 80 50 30 12 -8 -28 -43 -50 -50 -41 -29 -18 -5 7 19 29 40 47	50									
1 SD 11 80 60 51 23 -5 -32 -56 -73 -75 -66 -54 -42 -25 -1 26 48 62 72	80									
1 SD 11 80 70 54 29 0 -24 -43 -56 -59 -55 -49 -41 -31 -14 10 32 50 62	71									
1 SD 11 80 80 26 16 6 -5 -17 -26 -30 -29 -25 -13 -15 -10 -4 7 21 33	38									
1 SD 11 85 -80 21 24 18 7 2 7 0 -1 0 -12 -19 -22 -21 -15 -6 -2	8									
1 SD 11 85 -70 31 40 36 14 4 9 -1 -14 -2 -20 -34 -30 -28 -20 -8 -5	7									
1 SD 11 85 -60 41 38 15 1 0 15 -1 1 0 -12 -22 -37 -32 -19 -13 -14	6									
1 SD 11 85 -50 4 8 10 1 -1 1 1 1 -5 -1 0 -9 -18 -18 -1 6	10									
1 SD 11 85 -40 -10 5 -2 -22 -31 -24 -7 -2 -7 13 26 23 14 7 14 14	1									
1 SD 11 85 -30 -5 1 -9 -19 -10 4 5 -9 -11 18 27 16 11 6 7 -1 -	19									
1 SD 11 85 -20 -1 -10 -12 -9 -5 -8 -14 -14 -7 12 19 17 13 13 4 2	1									
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1 SD 11 85 10 5 -8 -8 -2 -1 -5 -12 -21 -23 -12 3 9 2 -5 3 21	30									
1 SD 11 85 20 7 8 10 9 4 4 4 6 0 -7 -7 -3 -8 -19 -24 -10 8	12									
1 SD 11 85 30 5 6 7 5 -1 1 8 10 6 2 3 -5 -20 -27 -15 1	7									
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1 SD 11 85 60 47 26 13 -9 -40 -63 -59 -39 -31 -35 -27 -4 19 25 20 32	58									
1 SD 11 85 70 40 21 5 -5 -13 -22 -25 -23 -25 -31 -34 -23 -2 14 18 21	36									
1 SD 11 85 80 -4 -7 -4 -4 -9 -16 -16 -9 2 30 12 2 -11 -12 2 17	19									
1 SD 11 90 -80 23 26 20 9 3 8 1 -1 0 -14 -20 -24 -22 -16 -6 -2	8									
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7	37									
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13	15									
1	SD 11	90 -40	-10 7	-2 -25	-36 -29	-10 -5	-9 13	29 26	16 8	16 16
3	-13									
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21	-13									
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14	8									
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24	18									
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36	30									
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16	15									
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12	14									
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25	27									
1	SD 11	90 50	35 24	6 -15	-31 -35	-29 -14	-1 1	2 0	-6 -14	-8 9
32	43									
1	SD 11	90 60	25 7	-1 -16	-41 -57	-46 -20	-9 -13	-8 11	28 26	10 16
39	46									
1	SD 11	90 70	20 3	-9 -12	-13 -16	-13 -6	-5 -10	-15 -9	7 14	10 6
18	27									
1	SD 11	90 80	-12 -15	-11 -8	-10 -15	-12 -2	11 41	20 7	-10 -13	0 14
15	2									
1	SD 12	20 -80	13 14	10 8	6 2	-3 -6	-8 -10	-10 -9	-6 -5	-6 -2
4	8									
1	SD 12	20 -70	20 20	14 11	8 2	-5 -9	-13 -16	-16 -13	-8 -6	-8 -2
5	12									
1	SD 12	20 -60	20 21	15 12	8 3	-4 -9	-14 -16	-16 -14	-10 -7	-8 -2
6	13									
1	SD 12	20 -50	19 13	10 7	3 -3	-9 -13	-15 -15	-13 -10	-6 -6	-1 -1
6	13									
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2	5									
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-1	-1									
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2	4									
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3	2									
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27	-17									
1 SD	12	20	50	-32	-20	-9	-1	3	9	22
49	-43									
1 SD	12	20	60	-34	-25	-18	-14	-12	-6	9
43	-41									
1 SD	12	20	70	-19	-17	-16	-17	-15	-11	0
21	-21									
1 SD	12	20	80	-4	-5	-8	-10	-10	-8	-3
-3	-3									
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5	10									
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2	2									
1 SD	12	25	20	8	5	4	1	-3	-6	-6
6	7									
1 SD	12	25	30	15	14	12	7	2	0	-3
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11	1									
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33	-16									
1 SD	12	25	60	1	17	23	24	19	16	19
40	-19									
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3	4									
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5	7									
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4	7									

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DATASET : CWEJ412.GRAMOD90.DATA
MEMBER : SCIDAT9

SCIDAT9

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1 SD 12 45 -30 2 2 2 -1 -1 0 0 -2 -2 -1 1 -1 -1 1 1	1	SD	12	45	-30	2	2	2	-1	-1	0	0	-2	-2	-1	1	-1	-1	1	1
1 SD 12 45 -20 1 2 2 2 1 -2 -2 -3 -1 -1 -1 -2 -1 1 2 1	1	SD	12	45	-20	1	2	2	2	1	-2	-2	-3	-1	-1	-1	-2	-1	1	2
1 SD 12 45 -10 0 1 1 2 1 -1 -1 -3 -1 0 0 -2 0 1 1	1	SD	12	45	-10	0	1	1	2	1	-1	-1	-3	-1	0	0	-2	0	1	1
1 SD 12 45 0 -2 -1 -1 0 0 0 1 0 1 1 1 1 1 1 1	1	SD	12	45	0	-2	-1	-1	0	0	0	1	0	1	1	1	1	1	1	1
1 SD 12 45 10 -4 -4 -2 -2 -1 1 2 2 2 3 3 3 2 2 1	1	SD	12	45	10	-4	-4	-2	-2	-1	1	2	2	2	3	3	3	2	2	1
1 SD 12 45 20 -9 -10 -9 -8 -5 0 4 8 10 10 9 8 6 3 2 -1	1	SD	12	45	20	-9	-10	-9	-8	-5	0	4	8	10	10	9	8	6	3	2
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DATASET: CWEJ412.GRAM090.DATA
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1 ST	1	25	-10	0	0	1	1	1	0	0	0	1	0	0	0	1	1	0	-1
1 ST	1	25	0	0	0	1	1	1	-1	-1	0	0	0	0	1	1	0	0	-1
1 ST	1	25	10	-1	-2	-1	-1	0	0	1	1	2	2	2	1	1	1	0	-2
1 ST	1	25	20	-4	-4	-2	-1	-1	0	3	4	5	5	5	3	2	2	-2	-4
1 ST	1	25	30	-1	-3	-5	-7	-7	-6	-2	1	4	6	6	6	5	4	2	1
1 ST	1	25	40	13	7	-1	-8	-12	-13	-12	-10	-7	-5	-4	-2	0	5	9	14
16 16	1	25	50	36	27	13	0	-9	-16	-20	-22	-23	-24	-24	-23	-17	-4	11	26
1 ST	1	25	60	59	48	31	12	-5	-18	-29	-36	-41	-44	-44	-43	-32	-13	10	34
36 39	1	25	70	64	57	42	21	1	-16	-31	-40	-47	-49	-50	-47	-36	-17	6	31
53 61	1	25	80	40	45	38	16	3	-9	-21	-30	-36	-41	-37	-29	-18	-8	4	18
1 ST	1	25	-80	-1	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	1	0
1 ST	1	30	-70	-2	-2	-2	-2	0	0	1	1	1	1	2	1	1	1	2	1
1 ST	1	30	-60	-2	-2	-2	-2	-1	-1	0	0	1	1	1	1	1	1	2	0
1 ST	1	30	-50	-2	-2	-2	-2	-1	1	0	1	1	2	2	1	1	2	2	1
1 ST	1	30	-40	-1	-1	0	0	1	1	1	1	1	1	1	-1	0	0	0	-1
1 ST	1	30	-30	0	1	0	0	0	-1	-1	0	0	1	1	0	-1	0	0	0
1 ST	1	30	-20	0	1	0	0	0	-1	-1	-1	0	0	1	1	0	1	1	1
0	1	30	-10	0	1	1	1	-1	-1	-1	-2	-1	0	1	1	1	1	1	0
1 ST	1	30	0	1	1	1	1	1	-1	-1	-1	-1	0	1	1	1	1	0	0

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MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	+	0								
1 ST	1	40	-80	-1	-1	0	1	2	1	-1	-2	-1	0	0	1	0	1	0	0
-1	-1																		
1 ST	1	40	-70	-1	-1	-1	-1	-1	0	0	1	1	1	1	1	1	1	0	0
0	-1																		
1 ST	1	40	-60	-1	-2	-1	-1	0	0	0	0	1	1	1	1	1	0	0	0
0	0																		
1 ST	1	40	-50	0	-1	0	0	0	0	0	0	1	1	1	0	0	1	0	0
0	1																		
1 ST	1	40	-40	0	0	0	0	0	0	0	-1	0	1	1	-1	-1	0	0	0
0	1																		
1 ST	1	40	-30	1	0	-1	0	0	0	-1	-1	0	0	1	-1	-1	0	0	0
0	1																		
1 ST	1	40	-20	1	-1	-1	-1	-1	1	1	0	-1	-1	0	1	0	-1	1	1
1	1																		
1 ST	1	40	-10	0	-1	-1	-1	-1	1	1	1	-1	-1	-1	-1	0	0	-1	-1
1	1																		
1 ST	1	40	0	1	0	1	0	1	1	1	1	1	-1	-1	-1	-1	-1	0	0
1	1																		
1 ST	1	40	10	0	1	1	1	1	1	1	1	0	-1	-1	-1	-1	-1	-1	-1
1	1																		
1 ST	1	40	20	-2	-2	-1	0	1	2	3	3	2	1	0	0	0	-1	-1	-1
0	1																		
1 ST	1	40	30	-10	-11	-9	-5	0	5	9	10	10	8	6	4	2	1	-1	-3
-2	-1																		
1 ST	1	40	40	-24	-25	-23	-17	-8	1	10	16	18	20	19	17	14	10	5	-3
-6	-9																		
1 ST	1	40	50	-29	-35	-34	-28	-18	-7	2	10	15	20	24	27	28	26	19	8
11	-18																		
1 ST	1	40	60	-27	-35	-35	-29	-21	-12	-5	0	5	11	19	27	33	35	30	17
-5	-19																		
1 ST	1	40	70	-23	-30	-32	-27	-20	-13	-8	-3	1	7	15	24	32	35	30	20
2	-14																		
1 ST	1	40	80	-4	-13	-17	-17	-16	-15	-10	-8	-3	4	9	16	21	16	18	14
5	-9																		
1 ST	1	45	-80	1	1	0	1	0	-3	-1	-1	1	1	-1	1	0	1	1	1
5	2																		
1 ST	1	45	-70	-1	-1	-1	-1	-1	0	0	0	0	1	2	2	1	0	0	0
1	-1																		
1 ST	1	45	-60	-1	-1	-1	-1	0	0	0	0	0	1	2	1	1	0	0	-1
1	0																		
1 ST	1	45	-50	0	0	0	1	1	0	0	0	-1	0	1	0	0	0	0	0
1	1																		
1 ST	1	45	-40	0	0	0	0	0	0	0	0	-1	1	1	0	-1	0	0	0
1	1																		
1 ST	1	45	-30	0	0	0	0	0	1	1	0	-1	0	1	0	0	0	0	0
0	0																		
1 ST	1	45	-20	-1	-1	-1	-1	0	1	1	1	0	-1	-1	0	0	-1	-1	0
0	0																		
1 ST	1	45	-10	-1	-1	-1	-1	0	2	2	1	1	0	0	-1	0	0	0	-1
1	1																		
1 ST	1	45	0	-1	-1	-1	0	1	2	1	1	1	1	-1	-1	-1	-1	-1	-1
0	-1																		
1 ST	1	45	0																
0	0																		

START
COL

	1	2	3	4	5	6	7	8	9	0								
1 ST	1	45	10	0	-1	-1	0	1	1	1	1	1	1	-1	-1	0	-1	-1
1 O	0																	
1 ST	1	45	20	-1	-1	0	1	1	2	2	2	1	0	0	-1	0	0	0
1 -1	-1																	
1 ST	1	45	30	-7	-7	-4	-1	2	5	7	7	5	3	2	1	1	0	-2
1 -6	-6																	
1 ST	1	45	40	-18	-18	-15	-10	-2	4	10	13	13	13	11	10	9	6	2
1 -15	-15																	
1 ST	1	45	50	-30	-32	-28	-20	-9	1	11	16	19	21	21	22	21	17	9
1 -23	-23																	
1 ST	1	45	60	-36	-40	-36	-25	-12	-1	9	14	19	22	26	29	30	25	16
1 -27	-27																	
1 ST	1	45	70	-35	-38	-34	-24	-13	-4	5	11	16	21	26	30	31	27	18
1 -25	-25																	
1 ST	1	45	80	-13	-20	-20	-15	-10	-8	-2	2	9	16	19	20	17	10	4
1 -7	-7																	
1 ST	1	50	-80	0	0	-1	-1	0	0	0	1	0	-1	-2	0	0	1	1
1 0	0																	
1 ST	1	50	-70	0	-1	-1	0	-1	0	0	1	0	0	1	1	0	0	0
1 0	0																	
1 ST	1	50	-60	0	-1	-1	-1	0	0	0	-1	-1	1	2	1	0	-1	-1
1 1	1																	
1 ST	1	50	-50	-1	-1	-1	-1	0	0	-1	-1	-1	1	1	1	0	-1	0
1 1	1																	
1 ST	1	50	-40	0	0	-1	-1	-1	0	0	0	-1	0	1	0	0	-1	-1
1 1	1																	
1 ST	1	50	-30	-1	-1	0	0	-1	1	1	1	-1	-1	1	0	0	0	0
1 -1	-1																	
1 ST	1	50	-20	-1	-1	-1	0	1	2	2	2	1	0	-1	0	-1	-1	-1
1 -1	-1																	
1 ST	1	50	-10	-1	-1	-1	0	2	3	2	2	1	0	-1	-1	-1	-1	-1
1 -1	-1																	
1 ST	1	50	0	-1	-1	-1	0	1	2	1	1	1	1	1	-1	-1	-1	-1
1 0	0																	
1 ST	1	50	10	0	-1	-1	0	1	1	1	0	1	0	-1	-1	0	1	-1
1 1	1																	
1 ST	1	50	20	-1	0	0	1	1	2	1	1	0	-1	-1	-1	0	0	0
1 0	0																	
1 ST	1	50	30															

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START COL	1	2	3	4	5	6	7	8	9	0					
1 ST	1	55	-70	0	-1	0	0	-1	0	1	1	0	-1	-1	0
0	0														
1 ST	1	55	-60	1	1	0	-1	0	1	0	1	1	-1	-1	-1
1	1														
1 ST	1	55	-50	0	0	-1	-1	0	1	0	-1	1	1	0	-1
1	1														
1 ST	1	55	-40	1	1	-1	-1	-1	-1	0	0	1	1	0	1
1	1														
1 ST	1	55	-30	1	1	1	0	0	1	1	0	-1	-1	0	1
1	1														
1 ST	1	55	-20	0	-1	-1	1	2	3	2	1	0	-1	-2	-1
0	0														
1 ST	1	55	-10	1	0	1	2	2	3	3	1	-1	-1	-2	-1
-1	-1														
1 ST	1	55	0	0	0	1	1	1	2	1	0	-1	-1	-2	-1
0	0														
1 ST	1	55	10	0	0	0	0	0	0	0	-1	-1	-1	0	1
1	1														
1 ST	1	55	20	0	0	1	1	1	1	1	0	-1	-1	0	1
0	0														
1 ST	1	55	30	0	1	2	2	3	4	3	1	-1	-3	-2	-1
0	0														
1 ST	1	55	40	-3	-2	-1	0	3	4	5	4	2	1	-1	-1
0	0														
1 ST	1	55	50	-13	-11	-7	0	6	12	15	16	13	9	6	1
-3	-3														
1 ST	1	55	60	-26	-23	-14	-2	9	18	23	23	21	18	15	10
12	12														
1 ST	1	55	70	-31	-24	-14	-4	7	16	22	24	23	23	21	16
20	20														
1 ST	1	55	80	-21	-18	-12	-4	5	15	21	22	21	18	16	7
26	26														
1 ST	1	60	-80	1	2	1	-1	-1	-1	-1	-2	-1	-2	-1	0
19	19														
1 ST	1	60	-70	0	1	-1	-3	-3	-2	-1	-1	0	0	2	2
2	2														
1 ST	1	60	-60	0	1	-1	-3	-3	-2	-1	-1	0	1	2	2
2	2														
1 ST	1	60	-50	0	1	-1	-3	-3	-1	0	-1	-2	-1	0	2
2	2														
1 ST	1	60	-40	1	1	0	-1	-2	-2	-1	0	-1	-1	1	1
2	2														
1 ST	1	60	-30	2	1	0	0	-1	0	0	-1	-2	-2	-1	0
2	2														
1 ST	1	60	-20	1	1	1	2	3	3	2	1	-1	-2	-2	-1
2	2														
1 ST	1	60	-10	1	1	1	2	2	3	3	1	-2	-2	-2	-1
0	0														
1 ST	1	60	0	-1	1	1	2	1	2	2	0	-2	-2	-2	-1
-1	-1														
1 ST	1	60	10	-1	0	1	1	0	0	1	-1	-2	-2	-1	-1
1	1														

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	1	2	3	4	5	6	7	8	9					
1 ST 1	60	20	1	1	1	0	-1	-2	-2	-1	0	1	1	1
1 ST 1	60	30	4	5	4	3	1	-2	-5	-6	-4	-2	-1	0
1 ST 1	60	40	1	3	5	6	6	4	1	-2	-4	-3	-3	-2
1 ST 1	60	50	-6	-1	6	12	15	16	15	11	5	0	-3	-6
1 ST 1	60	60	-17	-9	1	11	19	24	25	22	16	10	4	-1
1 ST 1	60	70	-22	-12	-2	8	16	24	28	28	25	21	13	3
1 ST 1	60	80	-21	-16	-10	-4	7	19	27	28	23	16	8	3
1 ST 1	65	-80	0	1	1	-1	-2	0	-1	-1	-1	0	1	1
1 ST 1	65	-70	0	1	0	-3	-3	-1	-2	-1	0	1	2	3
1 ST 1	65	-60	1	2	1	-2	-2	-1	-1	-1	0	1	2	3
1 ST 1	65	-50	1	1	0	-2	-2	0	-1	-1	-2	-1	0	1
1 ST 1	65	-40	1	1	-1	-1	-1	-1	-1	-1	0	1	2	3
1 ST 1	65	-30	2	1	-1	1	0	-1	0	-1	-1	0	0	1
1 ST 1	65	-20	2	0	1	2	2	3	3	1	-2	-3	-3	-2
1 ST 1	65	-10	1	-1	0	1	2	3	3	2	-2	-2	-1	0
1 ST 1	65	0	-1	-1	1	1	1	3	3	1	-1	-1	-1	1
1 ST 1	65	10	-2	0	1	1	0	1	1	1	-2	-1	-1	2
1 ST 1	65	20	1	1	1	2	1	1	0	-1	-2	-2	-1	0
1 ST 1	65	30	3	5	5	5	4	3	1	-1	-4	-5	-3	-2
1 ST 1	65	40	1	3	5	6	6	6	3	0	-2	-4	-4	-3
1 ST 1	65	50	1	7	12	16	16	14	9	3	-2	-7	-8	-9
1 ST 1	65	60	-6	3	11	18	22	22	19	14	8	1	-4	-9
1 ST 1	65	70	-11	-2	6	13	20	24	25	23	18	12	3	-7
1 ST 1	65	80	-14	-11	-5	0	7	16	23	24	18	10	3	-1
1 ST 1	70	-80	-1	-1	0	-1	0	1	0	-1	1	1	1	1
1 ST 1	70	-70	0	-1	-1	-2	-2	0	-1	-2	0	0	1	2
1 ST 1	70	-60	0	-1	-1	-2	-2	0	-1	-2	0	0	1	3
1 ST 1	70	-50	0	-1	-1	-2	-2	0	-1	-2	0	0	1	4
1 ST 1	70	-40	0	-1	-1	-2	-2	0	-1	-2	0	0	1	5
1 ST 1	70	-30	0	-1	-1	-2	-2	0	-1	-2	0	0	1	6
1 ST 1	70	-20	0	-1	-1	-2	-2	0	-1	-2	0	0	1	7
1 ST 1	70	-10	0	-1	-1	-2	-2	0	-1	-2	0	0	1	8
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1 ST 1	70	30	0	-1	-1	-2	-2	0	-1	-2	0	0	1	12
1 ST 1	70	40	0	-1	-1	-2	-2	0	-1	-2	0	0	1	13
1 ST 1	70	50	0	-1	-1	-2	-2	0	-1	-2	0	0	1	14
1 ST 1	70	60	0	-1	-1	-2	-2	0	-1	-2	0	0	1	15
1 ST 1	70	70	0	-1	-1	-2	-2	0	-1	-2	0	0	1	16
1 ST 1														

START COL	1	2	3	4	5	6	7	8	9	0				
1 ST	1	70	-60	1	1	-1	-1	-1	-1	0	2	2	1	1
1	1													
1 ST	1	70	-50	1	1	0	-1	-1	-1	-2	-2	-1	0	1
1	2													
1 ST	1	70	-40	0	-1	0	1	-1	-1	-2	-2	-1	0	1
1	2													
1 ST	1	70	-30	0	-1	-1	1	1	0	-1	0	0	-1	-1
0	1													
1 ST	1	70	-20	0	-1	1	2	2	1	2	1	-1	-2	-1
1	1													
1 ST	1	70	-10	-2	-2	-1	-1	1	2	2	0	0	1	0
-1	-1													
1 ST	1	70	0	-3	-3	-2	-1	-1	1	2	2	2	1	0
-2	-2													
1 ST	1	70	10	-2	-1	0	1	1	2	2	0	1	-1	0
-2	-2													
1 ST	1	70	20	0	0	1	2	1	2	1	0	0	0	0
0	-1													
1 ST	1	70	30	-1	1	3	4	3	3	2	1	0	-2	-2
-2	-2													
1 ST	1	70	40	-2	0	2	5	5	4	3	1	0	-1	-3
-3	-3													
1 ST	1	70	50	5	10	12	13	12	9	4	0	-5	-8	-9
-4	-4													
1 ST	1	70	60	3	10	16	19	18	15	11	5	0	-5	-9
-9	-9													
1 ST	1	70	70	0	6	11	15	19	19	17	13	8	2	-6
12	-6													
1 ST	1	70	80	-6	-4	0	3	6	10	14	14	9	3	-3
-7	-7													
1 ST	1	75	-80	-1	-3	-2	-1	1	2	0	0	1	1	2
-2	-2													
1 ST	1	75	-70	0	-3	-2	0	1	2	-1	-2	1	1	1
-1	-1													
1 ST	1	75	-60	1	-2	-1	-1	1	1	-2	-3	-1	-1	0
1	1													
1 ST	1	75	-50	2	-1	-1	1	2	1	-1	-2	-1	-3	-2
1	1													
1 ST	1	75	-40	-1	-2	0	1	0	0	-2	-3	-1	0	-1
1	1													
1 ST	1	75	-30	-1	-2	-1	1	1	0	-1	-1	1	1	0
0	-1													
1 ST	1	75	-20	-2	-1	1	1	1	-1	-1	1	1	-1	-1
0	-1													
1 ST	1	75	-10	-4	-4	-4	-3	-3	-2	-1	2	2	3	4
-1	-1													
1 ST	1	75	0	-4	-4	-3	-3	-2	-1	0	1	3	4	4
-2	-2													
1 ST	1	75	10	-2	-2	-1	-1	1	2	2	2	2	0	-2
-3	-3													
1 ST	1	75	20	-1	0	0	1	1	1	0	0	1	1	0
-1	-1													

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START COL	1	2	3	4	5	6	7	8	9	0									
1 ST	1	85	-50	1	2	2	4	3	1	0	1	0	-1	-3	-3	-3	-2	-1	0
0	0																		
1 ST	1	85	-40	2	3	3	1	1	1	-1	-2	-2	-2	-2	-3	-2	-1	0	1
2	2																		
1 ST	1	85	-30	-2	-1	-1	0	0	1	2	1	2	2	2	2	0	1	-1	-1
-1	-2																		
1 ST	1	85	-20	-2	-1	-2	-2	-2	0	2	2	2	2	2	2	2	2	2	1
-1	-2																		
1 ST	1	85	-10	1	2	1	-2	-6	-13	-13	2	10	11	8	5	3	3	-1	-5
2	2																		
1 ST	1	85	0	4	1	-3	-3	-3	-7	-8	1	8	10	7	4	1	-1	-6	-8
-2	5																		
1 ST	1	85	10	7	-1	-7	-5	0	0	-2	1	6	9	6	2	-1	-5	-10	-11
-2	7																		
1 ST	1	85	20	-1	-2	1	4	4	2	-1	-1	2	5	5	1	-4	-6	-4	-2
-1	-1																		
1 ST	1	85	30	-20	-14	0	12	13	7	0	1	7	13	12	5	-3	-7	-5	-3
-6	-14																		
1 ST	1	85	40	-5	-4	7	15	11	3	1	4	4	-2	-5	-3	-3	-8	-10	-5
3	2																		
1 ST	1	85	50	24	22	14	9	7	4	-1	-5	-5	-5	-8	-12	-15	-16	-15	-11
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1 ST	1	85	60	22	25	22	16	8	-2	-9	-8	-7	-9	-16	-21	-18	-11	-6	-3
3	13																		
1 ST	1	85	70	18	12	9	11	12	6	-4	-11	-15	-20	-22	-19	-10	-4	0	4
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1 ST	1	85	80	12	15	14	8	-2	-9	-11	-11	-12	-13	-11	-7	-4	0	4	8
10	10																		
1 ST	1	90	-80	-7	-7	-6	-3	0	1	4	7	7	7	7	5	3	-1	-2	-3
-6	-7																		
1 ST	1	90	-70	-4	-2	-1	2	5	3	5	5	4	4	1	0	-3	-5	-2	-4
-5	-5																		
1 ST	1	90	-60	1	-2	1	-1	0	-2	-2	-2	-1	-1	0	-2	0	1	3	3
3	1																		
1 ST	1	90	-50	1	2	3	5	4	1	1	2	0	-1	-3	-4	-5	-3	-2	-1
-1	0																		
1 ST	1	90	-40	3	4	4	1	1	1	0	-2	-3	-3	-3	-4	-3	-2	-1	1
3	2																		
1 ST	1	90	-30	-2	-1	-1	-1	-1	2	3	2	2	2	3	2	0	1	-1	-1
-2	-3																		
1 ST	1	90	-20	-3	-1	-3	-4	-4	-3	-3	-1	3	4	3	3	3	4	3	1
-1	-3																		
1 ST	1	90	-10	1	1	0	-5	-9	-18	-17	1	12	14	11	7	6	5	0	-5
-3	2																		
1 ST	1	90	0	4	1	-5	-5	-5	-11	-11	0	10	13	9	5	3	0	-6	-9
-1	6																		
1 ST	1	90	10	9	-2	-9	-7	-1	-1	-3	1	8	11	8	3	0	-6	-12	-13
-2	9																		
1 ST	1	90	20	-2	-2	1	3	4	2	-2	-1	4	7	7	2	-4	-7	-5	-3
-1	-1																		
1 ST	1	90	30	-23	-17	-2	11	13	7	0	2	10	17	16	7	-3	-7	-6	-4
-7	-16																		

START

COL 1 2 3 4 5 6 7 8 9 10

1	1	ST	1	90	40	-7	-6	6	14	10	2	1	6	7	-1	-4	-3	-3	-9	-11	-6
4	1	ST	2	90	50	29	25	14	8	4	1	-4	-8	-6	-5	-7	-12	-16	-15	-10	
3	19	1	ST	19	60	29	30	25	15	5	-7	-15	-14	-12	-13	-19	-23	-19	-10	-3	
8	20	1	ST	20	70	25	15	10	11	8	1	-11	-19	-23	-27	-27	-21	-9	0	5	
1	ST	27	1	90	80	19	22	19	11	-3	-13	-19	-19	-20	-19	-15	-9	-5	1	7	
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1	ST	3	0	20	-60	-3	-3	-4	-6	-5	-2	-1	-2	-2	4	6	3	2	3	5	
2	1	ST	2	20	-50	-4	-4	-3	-3	-3	-2	0	-1	1	4	5	2	1	2	3	
0	3	1	ST	20	-40	-1	1	1	1	0	1	2	-1	-1	2	2	-1	-2	-1	1	
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1	ST	2	2	20	-20	0	2	4	6	4	0	-2	1	2	-1	-4	-1	0	-1	-3	
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1	ST	2	2	20	20	-6	-6	-2	1	1	2	3	5	3	3	1	-1	2	6	1	
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18	1	ST	2	20	70	40	42	38	30	18	6	-3	-10	-18	-25	-31	-37	-38	-33	-21	
15	1	ST	2	20	80	25	31	33	30	21	8	-4	-15	-22	-26	-26	-24	-20	-16	-10	
7	1	ST	2	25	-80	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	2	1	1	2	2	
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1	1	ST	2	25	-50	-3	-3	-3	-3	-2	-1	0	0	1	3	3	2	2	2	1	
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DATASET: CWEUJ412.GRAMOD90.DATA
 MEMBER: SCIDAT9

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SCIDAT9

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-2	-1																		
1 ST	2	25	-30	1	2	2	1	-1	0	-1	-1	1	0	-1					
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1 ST	2	25	-20	1	1	2	1	1	0	0	-1	1	0	-1					
-1	0																		
1 ST	2	25	-10	0	1	1	1	0	-1	0	0	1	0	0					
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1 ST	2	25	0	0	0	0	-1	-1	-1	0	0	1	1	1					
0	0																		
1 ST	2	25	10	-1	-1	-1	0	-1	1	2	2	1	2	-1	-2				
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1 ST	2	25	20	-2	1	1	-1	-2	0	1	2	4	5	3	3	-2	-4		
-3	-5																		
1 ST	2	25	30	2	-1	-3	-6	-7	-5	-2	1	2	3	3	3	2	2		
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13	14																		
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1 ST	2	25	60	40	34	24	14	3	-6	-12	-19	-27	-32	-34	-35	-28	-15	3	20
33	39																		
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25	36																		
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13	23																		
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1 ST	2	30	-70	-2	-2	-2	-2	-2	-1	0	0	1	1	2	2	2	2	2	1
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1 ST	2	30	-60	-2	-2	-2	-2	-2	-1	-1	0	1	2	2	2	2	2	2	1
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1 ST	2	30	-40	-1	0	1	0	0	1	0	-1	0	1	0	-1	0	0	0	-1
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7	4																		

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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-1	1																
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-3	-3																
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-4	-10																
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4	-5																
1 ST	2	40	60	-13	-21	-23	-23	-21	-18	-18	-18	-15	-8	5	20	33	40
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1 ST	2	40	70	-10	-20	-26	-27	-23	-18	-14	-13	-11	-6	4	16	28	36
18	3																
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8	5																
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1 ST	2	45	40	-9	-10	-9	-7	-4	-1	1	3	5	6	7	9	8	4
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START COL	1	2	3	4	5	6	7	8	9	10									
1 ST	2	45	60	-20	-26	-28	-26	-21	-13	-7	-2	3	9	18	25	30	29	24	15
2 -10	2	45	70	-19	-27	-30	-29	-24	-17	-11	-7	-1	7	18	28	34	35	30	20
6 -8	2	45	80	-9	-18	-17	-15	-10	-7	-5	-3	2	8	13	17	13	7	14	8
1 ST	2	50	-80	0	0	-2	-2	3	-5	0	1	1	1	1	0	0	0	1	1
1 ST	2	50	-70	1	1	1	0	1	1	0	0	0	0	0	-1	-1	-2	-2	0
1 ST	2	50	-60	1	1	-1	0	0	1	0	0	-1	0	1	0	-1	-1	-1	-1
1 ST	2	50	-50	1	1	0	0	0	-1	-1	-1	-2	-1	0	1	0	0	1	1
1 ST	2	50	-40	1	-1	-1	-1	-1	-1	-1	-1	-1	0	1	1	1	0	0	1
1 ST	2	50	-30	1	0	0	0	-1	0	0	-1	-1	0	0	0	0	0	-1	1
1 ST	2	50	-20	-1	-1	1	1	1	1	2	2	1	0	0	0	-1	-2	-1	-1
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1 ST	2	50	40	-5	-6	-5	-4	-2	-2	-1	1	2	3	5	6	6	5	3	1
1 ST	2	50	50	-13	-14	-13	-10	-6	-2	1	3	6	9	12	14	13	11	7	1
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1 ST	2	55	-60	2	1	0	1	0	0	-1	-1	-1	-1	1	0	-1	0	0	0
1 ST	2	55	-50	2	1	0	1	1	-1	-1	-2	-1	-1	0	1	1	1	1	0
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1 ST	2	55	-30	1	0	0	0	-1	0	1	-1	-1	0	0	0	1	0	0	0
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1 ST	2	55	-10	1	0	0	0	0	0	1	-1	-1	0	0	0	1	0	0	0
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1 ST	2	55	10	1	0	0	0	0	0	1	-1	-1	0	0	0	1	0	0	0
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DATA= T: CWEU412.GRAMDD90.DATA
MEMBER: SCIDAT9DATE: 90/09/10
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PAGE: 305

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-2	-1																				
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-2	-1																				
1	ST	2	55	0	-1	-1	1	1	1	1	1	1	0	-1	-1	-1	-1	-1			
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-1	0																				
1	ST	2	55	20	-1	0	0	0	0	0	0	0	0	1	1	1	2	1	0		
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1	ST	2	55	30	-1	-1	-1	-2	-2	-3	-2	-1	0	1	3	5	4	3	2		
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1	ST	2	55	60	-28	-26	-20	-14	-4	6	15	23	26	29	28	23	13	3	-7	-15	-
22	-27																				
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25	-29																				
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1	ST	2	60	-20	0	-1	0	2	3	3	2	1	1	-1	-1	-2	-2	-1	-1	-1	
1	-1																				
1	ST	2	60	-10	0	-1	0	1	2	2	2	2	1	0	-1	-2	-1	-1	0	-1	
1	-1																				
1	ST	2	60	0	-1	-1	-1	0	1	0	0	1	1	0	0	-1	-1	1	1	1	
0	-1																				
1	ST	2	60	10	-1	-1	-1	0	-1	-1	-2	-1	0	0	0	1	1	2	2	2	
1	0																				
1	ST	2	60	20	0	1	1	1	0	0	-1	-1	-1	-1	0	0	1	1	0	1	
1	0																				
1	ST	2	60	30	2	2	2	2	0	-2	-4	-4	-4	-2	-1	2	3	2	2	1	
1	2																				
1	ST	2	60	40	-1	1	3	4	4	2	0	-2	-2	-1	0	1	1	0	-1	-2	
-2	-2																				
1	ST	2	60	50	-14	-9	-4	2	7	11	14	15	16	16	13	7	0	-8	-13	-17	-
17	-16																				
1	ST	2	60	60	-27	-20	-11	-2	8	18	26	31	33	31	24	13	0	-12	-22	-27	-
30	-30																				

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MEMBER: SCIDAT9

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-1	-1																
1 ST	2	70	0	-3	-4	-4	-3	-2	-2	-1	1	2	3	3	2	3	2
0	-2																
1 ST	2	70	10	-2	-2	-2	-2	-2	-2	-1	-1	1	2	2	1	1	2
2	-1																
1 ST	2	70	20	1	1	2	3	2	1	1	1	1	0	-1	-1	-2	-2
0	0																
1 ST	2	70	30	1	2	4	5	4	4	3	2	1	0	-1	-3	-4	-5
-2	-1																
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-6	-4																
1 ST	2	70	50	-6	-1	4	8	10	13	15	16	14	11	5	-1	-9	-15
15	-11																
1 ST	2	70	60	-10	-3	4	11	16	21	24	24	21	15	7	-4	-14	-21
22	-17																
1 ST	2	70	70	-12	-4	4	11	17	22	26	29	27	20	9	-3	-14	-23
26	-20																
1 ST	2	70	80	-14	-11	-8	-5	1	9	16	19	18	14	10	5	0	-4
14	-15																
1 ST	2	75	-80	2	1	1	1	1	-1	-1	-2	-2	-3	-2	0	0	2
3	3																
1 ST	2	75	-70	-2	-4	-3	-1	0	0	1	1	1	1	0	1	2	1
1	1																
1 ST	2	75	-60	-2	-4	-3	-2	0	0	1	2	2	1	1	1	3	1
0	1																
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1 ST	2	75	-30	0	0	1	2	2	3	2	1	-1	-1	-1	-1	-1	-2
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1 ST	2	75	-20	0	0	1	1	1	2	1	-1	-1	-1	0	1	1	-2
-1	-1																
1 ST	2	75	-10	-1	-2	-2	-1	-1	-1	-1	-1	-1	-1	1	2	2	-1
-1	-1																
1 ST	2	75	0	-4	-5	-5	-4	-4	-2	-2	0	1	3	5	5	4	3
-1	-2																
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2	-1																
1 ST	2	75	20	0	1	2	2	2	2	2	1	0	0	-1	-2	-3	-3
-1	0																
1 ST	2	75	30	-1	1	3	4	5	6	7	6	5	2	0	-3	-6	-7
-4	-2																
1 ST	2	75	40	-3	-2	0	2	4	7	10	11	10	6	3	0	-5	-8
-7	-5																
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11	-6																
1 ST	2	75	60	-2	3	9	13	16	17	18	16	12	7	0	-8	-15	-20
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1 ST	2	75	70	-4	4	10	15	17	17	17	17	14	9	1	-8	-16	-21
16	-10																

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MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	10										
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13	-12																			
1 ST	2	80	-80	2	2	1	1	0	-1	-1	-2	-2	-2	-2	-1	-1	0	1	1	
2	2																			
1 ST	2	80	-70	-3	-3	-3	-2	-1	0	1	2	3	3	3	3	2	1	0	-1	
-2	-3																			
1 ST	2	80	-60	-5	-5	-4	-3	-1	0	2	3	4	5	5	4	3	1	0	-2	
-3	-4																			
1 ST	2	80	-50	0	0	0	-1	0	0	0	0	0	0	0	0	1	0	0	0	
0	0																			
1 ST	2	80	-40	-1	-1	-1	0	0	0	1	1	1	1	1	1	0	0	0	-1	
-1	-1																			
1 ST	2	80	-30	1	2	3	3	3	3	2	1	0	-1	-2	-3	-3	-3	-2		
-1	0																			
1 ST	2	80	-20	1	1	1	1	0	0	-1	-1	-1	-1	-1	-1	0	0	1		
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1 ST	2	80	-10	-1	2	2	0	1	2	-1	-3	-6	-2	2	5	4	3	3	-1	
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1 ST	2	80	0	-4	-3	-3	-4	-3	-2	-3	-3	-3	1	6	7	5	4	4	2	
-1	-3																			
1 ST	2	80	10	-3	-3	-2	-1	-1	-1	-2	-4	-3	0	4	4	1	-1	1	4	
4	1																			
1 ST	2	80	20	1	2	3	3	3	4	5	4	1	-2	-2	-1	-2	-5	-6	-4	
-1	-1																			
1 ST	2	80	30	-3	-1	2	4	6	10	12	11	8	3	0	-4	-10	-12	-10	-6	
-4	-3																			
1 ST	2	80	40	-4	-3	-3	-3	0	6	13	17	14	9	4	0	-6	-12	-13	-9	
-5	-3																			
1 ST	2	80	50	4	8	10	9	7	7	10	12	9	3	-3	-9	-13	-17	-17	-12	
-6	0																			
1 ST	2	80	60	7	11	14	17	17	15	12	9	5	-1	-8	-14	-19	-21	-21	-16	
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1 ST	2	80	70	4	10	15	18	17	13	8	5	2	-1	-5	-11	-15	-17	-16	-13	
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1 ST	2	80	80	-6	-3	0	4	9	13	17	16	10	4	-1	-3	-5	-8	-12	-13	-
11	-8																			
1 ST	2	85	-80	2	2	2	2	1	0	0	-2	-2	-2	-2	-1	-2	-1	1	2	
2	2																			
1 ST	2	85	-70	-4	-5	-4	-2	0	1	2	2	4	4	5	4	1	0	0	-1	
-2	-3																			
1 ST	2	85	-60	-7	-7	-4	-3	0	1	4	5	5	7	7	4	3	0	-1	-3	
-5	-5																			
1 ST	2	85	-50	0	0	1	-1	1	1	1	0	0	0	0	0	1	-1	0	0	
0	0																			
1 ST	2	85	-40	-2	-2	-1	0	0	-1	1	2	2	2	2	2	0	-1	-1	-1	
-1	-2																			
1 ST	2	85	-30	1	3	4	4	4	4	3	2	0	-2	-2	-3	-4	-4	-4	-2	
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1 ST	2	85	-20	1	1	2	1	-1	-1	-2	-2	-1	-1	0	0	-1	0	0	1	
2	2																			
1 ST	2	85	-10	0	7	9	4	5	8	0	-4	-10	-5	3	7	3	1	0	-6	-
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START COL	1	2	3	4	5	6	7	8	9	0									
1 ST	2	85	0	-2	1	4	3	4	5	0	-4	-8	-3	4	7	1	-2	-1	-1
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6	1																		
1 ST	2	85	20	1	3	5	5	4	8	13	11	0	-8	-6	0	-3	-12	-15	-9
-1	2																		
1 ST	2	85	30	-9	-6	-2	-2	2	13	25	25	14	5	0	-6	-17	-22	-14	-2
1	-4																		
1 ST	2	85	40	-3	-9	-14	-20	-19	-3	20	32	25	12	5	2	-5	-14	-15	-6
4	3																		
1 ST	2	85	50	13	15	14	6	-5	-5	6	16	12	-3	-14	-17	-16	-17	-14	-5
5	11																		
1 ST	2	85	60	22	18	17	18	16	7	0	-3	-6	-12	-19	-22	-21	-20	-17	-7
9	21																		
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1 ST	2	85	80	8	8	10	14	21	24	17	1	-13	-18	-13	-9	-12	-18	-18	
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1 ST	2	90	-80	2	2	2	2	2	0	0	-2	-2	-2	-1	-1	-3	-1	1	2
2	1																		
1 ST	2	90	-70	-5	-6	-4	-2	1	2	3	3	5	6	7	5	1	0	-1	-2
-3	-4																		
1 ST	2	90	-60	-9	-8	-5	-4	1	2	5	6	7	10	10	5	3	-1	-2	-4
-7	-7																		
1 ST	2	90	-50	0	0	2	-1	1	2	2	1	0	1	1	0	0	-2	-1	-1
-1	0																		
1 ST	2	90	-40	-2	-3	-1	0	1	-1	1	3	3	3	4	3	-1	-2	-1	-1
2	-3																		
1 ST	2	90	-30	2	4	5	5	5	4	3	2	0	-2	-3	-4	-5	-6	-5	-2
-1	1																		
1 ST	2	90	-20	1	2	2	1	-2	-2	-3	-2	-1	-1	0	0	-1	-1	0	2
3	3																		
1 ST	2	90	-10	0	9	11	4	5	9	-1	-5	-13	-6	4	10	5	2	1	-7
16	-12																		
1 ST	2	90	0	-2	2	4	2	3	5	-1	-6	-11	-4	6	9	2	-2	-1	-1
-5	-4																		
1 ST	2	90	10	-4	-5	-1	3	2	2	0	-6	-8	-2	6	7	-1	-7	-2	6
7	2																		
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-2	2																		
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1 ST	2	90	40	-4	-10	-16	-23	-21	-3	23	37	29	15	6	2	-6	-17	-18	-7
5	3																		
1 ST	2	90	50	18	20	17	7	-6	-8	3	14	9	-7	-18	-21	-18	-13	-2	
10	16																		
1 ST	2	90	60	31	25	22	21	17	4	-6	-11	-14	-20	-27	-27	-24	-20	-15	-2
17	30																		
1 ST	2	90	70	26	31	36	32	19	-3	-23	-34	-33	-27	-20	-19	-18	-12	-2	8
17	22																		
1 ST	2	90	80	12	12	12	15	18	23	25	15	-3	-18	-23	-17	-12	-14	-20	-18
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START COL	1	2	3	4	5	6	7	8	9							
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2	3	20	-70	1	0	1	-1	-2	-2	-3	-2	1	0	-2	1	5
1 ST	3	20	-60	-1	-1	-1	-2	-3	-3	-2	-3	-1	2	2	0	6
2	3	20	-50	-3	-3	-2	-2	-3	-4	-3	-1	0	1	3	3	5
1 ST	3	20	-40	-2	-1	0	0	1	0	-1	2	-1	-1	1	0	2
2	3	20	-30	-2	0	1	1	3	1	-2	1	0	-1	-1	-2	1
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2	3	20	-10	-1	1	2	1	1	-1	-1	0	2	-1	-1	1	0
1 ST	3	20	0	-1	0	0	0	-1	-1	-1	0	-1	-1	0	1	1
2	3	20	10	-1	-1	1	0	1	-2	0	2	2	1	1	0	-3
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2	3	20	30	0	0	1	1	-1	-2	0	2	2	3	2	1	0
1 ST	3	20	40	12	9	7	4	1	0	-2	-5	-7	-9	-11	-10	-6
2	3	20	50	27	26	23	19	15	11	4	-6	-16	-24	-32	-34	-23
1 ST	3	20	60	38	39	38	34	29	20	8	-6	-22	-36	-45	-51	-48
2	3	20	70	40	43	43	40	32	21	7	-7	-24	-37	-47	-52	-49
1 ST	3	20	80	26	29	29	26	20	12	2	-8	-18	-26	-31	-32	-28
2	3	25	-80	1	1	1	0	-2	-2	-3	-3	-2	-2	-1	-1	0
1 ST	3	25	-70	-1	-1	-1	-2	-3	-4	-3	-3	-2	0	1	1	2
2	3	25	-60	-2	-2	-3	-4	-5	-5	-4	-2	-1	1	2	3	4
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1 ST	3	25	-30	-1	1	1	1	1	1	0	0	-1	-1	-1	-1	0
2	3	25	-20	1	1	0	1	1	0	-1	0	0	-1	-1	0	-1
1 ST	3	25	-10	0	1	1	1	1	0	0	-1	0	0	0	-1	-1
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1 ST	3	25	1	0	1	0	0	0	0	0	0	0	0	1	0	0
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0	-1																		
1 ST	3	25	20	-2	-2	-1	0	0	0	1	3	3	3	3	2	2	-2	-4	
-3	-4																		
1 ST	3	25	30	-2	-2	-2	-2	-2	-2	0	2	3	4	4	3	2	0	0	
-1	-2																		
1 ST	3	25	40	8	4	0	-2	-4	-6	-6	-7	-7	-7	-6	-3	-2	3	7	11
11	10																		
1 ST	3	25	50	24	20	15	11	6	0	-7	-14	-22	-27	-29	-25	-18	-6	7	18
23	26																		
1 ST	3	25	60	35	33	30	25	17	8	-4	-17	-31	-41	-44	-42	-32	-16	2	18
28	34																		
1 ST	3	25	70	36	36	34	30	20	9	-3	-16	-29	-38	-43	-42	-34	-20	-3	14
24	31																		
1 ST	3	25	80	19	15	4	18	16	8	0	-7	-15	-19	-22	-23	-17	-5	0	5
12	18																		
1 ST	3	30	-80	-1	-1	-1	-2	-2	-2	-3	-2	-1	0	1	2	2	2	2	2
2	0																		
1 ST	3	30	-70	-3	-3	-3	-4	-5	-4	-3	0	1	3	3	4	4	4	4	2
1	-2																		
1 ST	3	30	-60	-5	-5	-5	-4	-4	-3	-2	1	3	4	5	5	4	3	1	1
-1	-4																		
1 ST	3	30	-50	-5	-5	-4	-3	-3	-2	0	3	4	5	6	5	4	3	2	-1
-3	-5																		
1 ST	3	30	-40	-1	-1	1	1	1	1	2	2	2	2	1	-1	-1	-1	-1	-2
-2	-2																		
1 ST	3	30	-30	0	1	1	1	1	0	0	0	0	0	0	-1	-1	-1	-1	-1
-1	-1																		
1 ST	3	30	-20	1	1	0	0	0	-1	-1	-1	-1	-1	1	1	0	0	0	0
0	0																		
1 ST	3	30	-10	0	1	1	1	0	-1	-1	-1	1	0	1	1	0	-1	-1	0
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1 ST	3	30	0	-1	0	0	1	0	0	0	1	1	0	0	1	0	-1	-1	-1
-1	-1																		
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-1	-1																		
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-2	-3																		
1 ST	3	30	30	-6	-6	-6	-4	-3	-2	0	2	4	6	8	7	5	4	2	0
-3	-5																		
1 ST	3	30	40	-3	-7	-10	-11	-11	-10	-9	-6	-3	2	7	10	12	14	13	11
6	1																		
1 ST	3	30	50	7	0	-5	-9	-13	-17	-19	-21	-20	-15	-7	3	13	21	25	25
20	14																		
1 ST	3	30	60	16	9	4	-2	-9	-15	-22	-28	-30	-27	-19	-6	8	20	28	30
28	22																		
1 ST	3	30	70	19	14	8	3	-6	-13	-19	-25	-27	-26	-19	-11	1	12	21	25
24	20																		
1 ST	3	30	80	4	-3	-16	6	1	-4	-8	-9	-10	-7	-4	-4	0	14	11	12
12	9																		
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2	1																		

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MEMBER: SCIDAT9

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-2	-3																		
1 ST	3	35	-50	-4	-3	-3	-2	-1	-1	1	3	5	5	4	4	2	1	-1	-3
-4	-4																		
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-4	-3																	
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5	9																		

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-1	0										0
1 ST	4	20	0	0	1	1	0	0	0	0	-1
-1	0										0
1 ST	4	20	10	0	0	1	1	1	0	1	0
-1	-1										-3
1 ST	4	20	20	0	1	3	1	0	2	1	0
-3	-2										-4
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-5	-4										-2
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14	15										-11
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8	8										-7
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2	2										-4
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1 ST	4	25	20	0	0	1	1	1	1	2	1
-2	-1										4
1 ST	4	25	30	-2	-1	0	0	0	2	3	4
-4	-3										4
1 ST	4	25	40	-1	-2	-2	-3	-2	0	2	3
1	0										4
1 ST	4	25	50	6	2	-1	-3	-4	-4	-5	-4
11	9										-3

419

START
COL

COL	1	2	3	4	5	6	7	8	9	+	-					
1 ST	4	50	-10	1	1	1	1	2	1	1	0	0	-1	-1	-1	-1
1 O	1															
1 ST	4	50	0	1	0	1	1	2	1	1	0	0	-1	-1	-1	0
1 I	1															
1 ST	4	50	10	1	0	0	1	1	1	1	0	0	-1	-1	-1	0
1 O	1															
1 ST	4	50	20	1	1	1	1	1	0	0	0	0	-1	-1	-1	0
1 O	1															
1 ST	4	50	30	1	1	1	1	1	1	1	1	0	-1	-2	-1	0
1 I	2															
1 ST	4	50	40	2	1	1	1	1	1	1	1	0	0	-1	-1	-1
1 O	1															
1 ST	4	50	50	-1	0	0	1	2	3	3	4	4	3	1	0	-1
1 -3	-2															
1 ST	4	50	60	-4	-3	-2	-1	1	2	3	5	5	6	4	3	1
1 -5	-4															
1 ST	4	50	70	-4	-3	-2	-1	1	1	2	4	4	5	4	3	1
1 -3	-4															
1 ST	4	50	80	-2	-1	-2	0	0	0	0	1	1	2	1	0	1
1 I	1															
1 ST	4	55	-80	-7	-7	-6	-4	-2	-1	1	2	3	6	7	8	7
1 -4	-6															
1 ST	4	55	-70	-11	-10	-9	-5	-2	1	5	7	8	12	12	11	7
1 -9	-11															
1 ST	4	55	-60	-13	-11	-8	-5	-1	4	6	8	8	13	13	12	8
1 13	-15															
1 ST	4	55	-50	-7	-6	-4	-1	3	4	6	6	6	6	5	5	2
1 -7	-8															
1 ST	4	55	-40	-2	-1	0	2	2	2	2	1	1	2	1	1	0
1 -3	-3															
1 ST	4	55	-30	0	0	1	2	2	2	2	1	1	0	0	-1	-1
1 -1	-1															
1 ST	4	55	-20	0	1	1	1	2	2	2	2	2	1	0	-1	-1
1 O	0															
1 ST	4	55	-10	0	0	0	1	1	2	1	1	0	0	-1	-1	0
1 O	0															
1 ST	4	55	0	0	0	1	1	1	1	1	0	0	0	-1	-1	0
1 O	0															
1 ST	4	55	10	0	0	1	1	0	1	0	1	0	0	0	0	0
1 O	0															
1 ST	4	55	20	0	0	0	0	0	0	0	0	1	0	0	0	-1
1 O	0															
1 ST	4	55	30	0	1	0	0	0	1	1	0	0	0	-1	-1	0
1 I	1															
1 ST	4	55	40	2	3	2	2	1	1	0	0	-1	-2	-2	-1	0
1 I	2															
1 ST	4	55	50	1	2	2	2	3	3	3	3	2	1	-1	-2	-1
1 -2	0															
1 ST	4	55	60	-3	-1	0	1	2	4	4	5	4	4	2	1	-1
1 -3	-3															
1 ST	4	55	70	-5	-3	-2	-1	2	3	3	4	3	4	3	2	0
1 -2	-2															

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	10									
1 ST	4	55	80	-3	-6	-6	0	2	4	3	2	2	1	0	0	-3	1	1	
2	2																		
1 ST	4	60	-80	-5	-4	-3	-1	1	3	4	4	3	3	2	2	1	0	-1	-3
-4	-5																		
1 ST	4	60	-70	-7	-5	-3	0	2	5	7	8	8	8	6	4	1	-2	-6	-8
-9	-9																		
1 ST	4	60	-60	-8	-4	-1	2	5	8	10	10	9	8	5	2	-1	-5	-8	-11
11	-10																		
1 ST	4	60	-50	-4	-2	0	3	5	7	8	7	6	5	3	1	-1	-4	-7	-9
-7	-7																		
1 ST	4	60	-40	-1	1	-3	4	4	4	3	2	1	1	0	0	-2	-3	-4	-4
-4	-3																		
1 ST	4	60	-30	1	2	2	3	2	2	1	0	1	0	0	-1	-2	-2	-2	-2
-1	-1																		
1 ST	4	60	-20	0	0	1	1	2	2	2	1	2	1	0	-1	-2	-2	-2	-1
-1	0																		
1 ST	4	60	-10	0	0	-1	0	1	1	1	1	1	0	0	0	-1	0	0	0
0	0																		
1 ST	4	60	0	0	0	0	0	1	0	0	0	0	0	0	0	-1	0	0	0
0	0																		
1 ST	4	60	10	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
0	0																		
1 ST	4	60	20	0	0	0	0	0	-1	0	0	1	1	1	0	0	0	1	0
0	0																		
1 ST	4	60	30	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	1	1
0	0																		
1 ST	4	60	40	2	2	2	1	1	1	0	0	-1	-2	-2	-2	-2	-1	1	1
1	0																		
1 ST	4	60	50	3	3	3	2	2	2	2	1	0	0	-2	-3	-4	-4	-3	-1
2	2																		
1 ST	4	60	60	1	2	2	2	1	2	2	2	2	1	0	-1	-3	-3	-2	-2
0	0																		
1 ST	4	60	70	1	1	1	1	1	1	1	2	2	1	0	-1	-2	-2	-2	-1
-1	0																		
1 ST	4	60	80	0	1	1	1	2	3	4	2	1	-2	-2	-2	-1	0	0	-1
-1	0																		
1 ST	4	65	-80	-3	-2	0	2	4	5	6	5	4	2	1	0	-1	-2	-3	-4
-1	-1																		
1 ST	4	65	-70	-4	-2	0	3	5	7	9	8	7	6	4	1	-2	-5	-7	-9
-5	-5																		
1 ST	4	65	-60	-4	-1	1	4	6	9	10	9	7	5	2	0	-4	-7	-9	-10
-7	-7																		
1 ST	4	65	-50	-2	1	3	5	6	7	7	6	5	3	1	-1	-4	-6	-8	-9
-7	-7																		
1 ST	4	65	-40	1	3	4	5	5	5	3	2	1	0	-1	-2	-4	-5	-5	-5
-5	-5																		
1 ST	4	65	-30	1	2	2	2	2	1	0	0	0	0	0	-1	-2	-2	-2	-1
-3	-2																		
1 ST	4	65	-20	1	1	1	1	1	1	1	1	1	1	0	1	-1	-2	-2	-1
0	0																		
1 ST	4	65	-10	1	0	0	0	0	0	0	0	0	0	0	-1	-1	-1	0	0
0	0																		
1 ST	4	65	1	0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	0	0
1	1																		

START COL	1	2	3	4	5	6	7	8	9	0	
1 ST	4	65	0	0	0	0	0	1	0	0	1
1 ST	4	65	10	0	0	0	0	0	0	0	0
1 ST	4	65	20	0	0	0	0	0	0	0	0
1 ST	4	65	30	0	0	0	0	0	0	0	1
1 ST	4	65	40	1	2	1	0	0	0	0	1
1 ST	4	65	50	3	3	2	1	1	0	0	0
1 ST	4	65	60	2	1	1	0	1	1	1	1
1 ST	4	65	70	2	1	0	0	1	1	0	0
1 ST	4	65	80	-1	-1	-1	1	3	4	3	0
1 ST	4	70	-80	-2	0	2	4	6	6	4	3
1 ST	4	70	-70	-2	0	2	5	6	6	5	4
1 ST	4	70	-60	-2	0	2	4	6	6	7	6
1 ST	4	70	-50	0	2	4	5	6	5	3	2
1 ST	4	70	-40	1	3	4	5	4	3	2	1
1 ST	4	70	-30	1	1	2	2	1	0	0	0
1 ST	4	70	-20	2	2	1	0	0	0	0	0
1 ST	4	70	-10	1	1	1	0	0	0	-1	0
1 ST	4	70	0	0	0	0	1	1	1	1	1
1 ST	4	70	10	0	1	1	0	0	0	-1	-1
1 ST	4	70	20	1	0	1	1	0	0	-1	-1
1 ST	4	70	30	-1	0	0	1	1	0	0	1
1 ST	4	70	40	0	0	0	1	1	0	0	1
1 ST	4	70	50	1	2	2	0	1	1	0	0
1 ST	4	70	60	1	1	0	0	-1	0	0	-1
1 ST	4	70	70	2	1	0	0	-1	0	0	0
1 ST	4	70	80	-2	-2	-1	0	1	3	2	1
1 ST	4	70	-1	-1	-1	0	1	0	1	0	1
1 ST	4	70	-2	-2	-2	-1	0	1	0	-1	-1
1 ST	4	70	-3	-3	-3	-2	-1	0	0	0	0
1 ST	4	70	-4	-4	-4	-3	-2	-1	0	0	0
1 ST	4	70	-5	-5	-5	-4	-3	-2	-1	0	0
1 ST	4	70	-6	-6	-6	-5	-4	-3	-2	-1	0
1 ST	4	70	-7	-7	-7	-6	-5	-4	-3	-2	-1
1 ST	4	70	-8	-8	-8	-7	-6	-5	-4	-3	-2
1 ST	4	70	-9	-9	-9	-8	-7	-6	-5	-4	-3
1 ST	4	70	-10	-10	-10	-9	-8	-7	-6	-5	-4
1 ST	4	70	-11	-11	-11	-10	-9	-8	-7	-6	-5
1 ST	4	70	-12	-12	-12	-11	-10	-9	-8	-7	-6
1 ST	4	70	-13	-13	-13	-12	-11	-10	-9	-8	-7
1 ST	4	70	-14	-14	-14	-13	-12	-11	-10	-9	-8
1 ST	4	70	-15	-15	-15	-14	-13	-12	-11	-10	-9
1 ST	4	70	-16	-16	-16	-15	-14	-13	-12	-11	-10
1 ST	4	70	-17	-17	-17	-16	-15	-14	-13	-12	-11
1 ST	4	70	-18	-18	-18	-17	-16	-15	-14	-13	-12
1 ST	4	70	-19	-19	-19	-18	-17	-16	-15	-14	-13
1 ST	4	70	-20	-20	-20	-19	-18	-17	-16	-15	-14
1 ST	4	70	-21	-21	-21	-20	-19	-18	-17	-16	-15
1 ST	4	70	-22	-22	-22	-21	-20	-19	-18	-17	-16
1 ST	4	70	-23	-23	-23	-22	-21	-20	-19	-18	-17
1											

DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9DATE: 90/09/10
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PAGE: 327

START COL	1	2	3	4	5	6	7	8	9	0								
1 ST	4	75	-80	-1	1	3	6	7	6	5	4	2	0	-2	-3	-4	-5	-5
-4	-3																	
1 ST	4	75	-70	0	1	4	6	6	5	4	3	1	0	-1	-2	-4	-5	-5
-4	-2																	
1 ST	4	75	-60	0	1	3	4	4	3	3	2	1	0	-1	-2	-3	-4	-3
-2	0																	
1 ST	4	75	-50	1	2	3	4	4	3	2	1	0	-1	-1	-2	-3	-3	-2
-2	0																	
1 ST	4	75	-40	2	2	3	3	3	1	0	0	0	-1	-1	-2	-2	-3	-1
-2	0																	
1 ST	4	75	-30	1	1	2	1	0	0	-1	-1	-1	0	0	0	1	0	-1
-2	0																	
1 ST	4	75	-20	2	1	1	0	-1	-1	-2	-2	-2	-1	-1	0	0	0	1
-2	0																	
1 ST	4	75	-10	2	2	1	1	0	0	-1	-2	-2	-1	-1	0	0	0	0
-2	0																	
1 ST	4	75	0	0	1	1	2	1	1	1	0	0	-1	0	0	0	-1	-1
-2	0																	
1 ST	4	75	10	0	1	2	1	2	1	0	-1	-2	-1	-1	0	1	0	0
-2	0																	
1 ST	4	75	20	0	0	1	1	1	1	0	-1	-2	-2	-1	0	0	1	1
-2	0																	
1 ST	4	75	30	-1	-1	1	1	2	2	1	0	0	0	0	1	2	1	0
-2	0																	
1 ST	4	75	40	-1	-1	0	1	1	1	1	1	2	1	1	1	0	-1	-2
-2	0																	
1 ST	4	75	50	0	1	2	1	1	1	0	0	0	0	0	1	1	1	1
-2	0																	
1 ST	4	75	60	1	0	0	0	0	-1	-1	-1	-1	0	0	1	1	1	1
-2	0																	
1 ST	4	75	70	2	1	0	0	-1	-3	-4	-3	-1	0	1	0	0	1	2
-2	0																	
1 ST	4	75	80	-2	-2	-1	-2	-2	0	2	2	1	1	3	2	0	-1	0
-2	0																	
1 ST	4	80	-80	1	4	7	9	10	10	8	6	2	-1	-4	-6	-8	-9	-8
-2	0																	
1 ST	4	80	-70	3	6	7	8	8	7	5	3	1	-1	-3	-5	-7	-8	-7
-2	0																	
1 ST	4	80	-60	4	5	5	4	3	2	1	0	-1	-2	-3	-4	-5	-5	-4
-2	0																	
1 ST	4	80	-50	3	4	5	4	3	2	0	-1	-1	-2	-2	-3	-3	-2	-1
-2	0																	
1 ST	4	80	-40	3	3	3	3	2	1	0	-1	-1	-2	-2	-2	-2	-2	-1
-2	0																	
1 ST	4	80	-30	1	1	1	0	-1	-1	-1	-1	-1	0	0	1	1	1	1
-2	0																	
1 ST	4	80	-20	4	3	1	-1	-2	-3	-4	-4	-4	-3	-2	0	1	2	3
-2	0																	
1 ST	4	80	-10	4	2	-1	0	2	2	0	-4	-5	-3	-2	-2	0	2	3
-2	0																	
1 ST	4	80	0	1	0	-1	1	4	5	2	-2	-3	-2	-1	-1	0	0	0
-2	0																	
1 ST	4	80																

[illegible]

427

COL

[illegible]

[illegible]

DATA SET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

431

START
COL

DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9DATE: 90/09/10
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PAGE: 335

START COL	1	2	3	4	5	6	7	8	9	10									
1 ST	5	60	-40	-1	0	2	3	4	4	3	2	1	0	-1	-1	-2	-2	-3	
-2																			
1 ST	5	60	-30	4	3	3	2	1	0	-2	-3	-4	-4	-3	-2	-1	0	1	2
3																			
1 ST	5	60	-20	3	3	2	1	1	0	-2	-3	-4	-4	-3	-2	0	1	2	2
3																			
1 ST	5	60	-10	4	2	1	1	0	-1	-2	-3	-3	-3	-3	-2	-1	1	2	3
3																			
1 ST	5	60	0	3	2	0	0	0	0	-1	-2	-2	-2	-2	-1	-1	1	2	2
3																			
1 ST	5	60	10	2	0	-2	-2	-1	-1	-1	-1	-1	-1	-1	0	1	1	2	2
2																			
1 ST	5	60	20	0	-1	-2	-1	-1	0	0	1	1	2	1	1	0	1	0	1
0																			
1 ST	5	60	30	-1	-1	-1	-1	0	1	2	1	1	1	1	-1	-1	-1	-1	-1
0																			
1 ST	5	60	40	0	-1	0	0	1	1	1	1	1	1	0	-1	-1	-1	-1	0
0																			
1 ST	5	60	50	0	-1	-1	0	1	1	1	1	1	1	0	0	0	-1	-1	-1
-1																			
1 ST	5	60	60	-1	-1	-1	0	0	1	1	1	1	1	0	-1	-1	-1	-1	-1
0																			
1 ST	5	60	70	0	0	0	1	1	1	2	1	1	1	0	-1	-1	-2	-1	-1
0																			
1 ST	5	60	80	-1	-1	-1	-1	0	1	1	1	1	1	1	1	1	0	-1	-1
0																			
1 ST	5	65	-80	-3	-3	-2	-2	-1	1	2	3	3	3	2	2	2	1	0	-1
-1																			
1 ST	5	65	-70	-5	-4	-3	-2	0	2	5	6	6	4	3	2	1	1	-1	-3
-2																			
1 ST	5	65	-60	-5	-3	-2	-1	2	6	8	9	8	5	3	1	-1	-3	-5	-6
-4																			
1 ST	5	65	-50	-2	-1	0	1	4	6	7	6	5	2	1	-2	-3	-4	-5	-5
-6																			
1 ST	5	65	-40	1	2	3	3	3	3	1	0	-1	-2	-3	-3	-2	-2	-1	-1
-4																			
1 ST	5	65	-30	5	5	4	3	2	0	-3	-5	-5	-5	-4	-3	-1	0	1	2
0																			
1 ST	5	65	-20	4	3	2	1	1	-1	-3	-4	-5	-4	-4	-2	0	1	2	2
4																			
1 ST	5	65	-10	5	3	2	1	0	-1	-3	-4	-5	-4	-3	-2	-1	1	2	3
3																			
1 ST	5	65	0	3	1	0	-1	0	0	-1	-2	-3	-4	-3	-2	-1	1	1	2
4																			
1 ST	5	65	10	3	1	-1	-1	-1	1	-1	-2	-2	-2	-2	-1	0	1	1	2
2																			
1 ST	5	65	20	1	0	-2	-2	-1	0	-1	0	0	0	-1	0	1	1	1	1
3																			
1 ST	5	65	30	0	-1	-1	-1	0	1	1	0	1	1	-1	-1	-1	0	0	1
1																			
1 ST	5	65	40	0	-1	-1	-1	0	1	2	3	3	2	1	0	-1	-1	-1	-2
-1																			

[illegible]

DATE: 90/09/10
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PAGE: 337DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	10						
1 ST	5	75	-30	1	2	2	1	1	0	-1	-1	-1	-1	-1	0	1
2	2	75	-20	1	1	0	0	-1	-1	-2	-1	0	0	0	1	1
1 ST	5	75	-10	1	1	1	1	0	-1	-1	-2	-1	0	0	1	0
2	2	75	0	0	0	0	1	0	-1	-1	-1	1	0	1	1	0
1 ST	5	75	10	2	2	1	1	-1	-2	-2	-2	-1	-1	0	1	2
2	2	75	20	2	2	1	-1	-1	-1	-1	-2	-2	-1	1	1	1
1 ST	5	75	30	-1	-1	-2	-2	-2	-1	1	1	1	1	1	0	1
2	2	75	40	-3	-2	-2	-1	0	1	3	4	4	3	1	-1	-2
1 ST	5	75	50	-3	-2	-3	-2	-1	-1	1	2	3	3	2	1	0
2	2	75	60	-3	-2	-2	-1	-1	0	1	1	3	3	2	1	-1
1 ST	5	75	70	-2	-2	-3	-3	-3	-3	-2	-1	2	2	3	3	2
2	2	75	80	0	1	2	2	2	2	2	1	1	0	-1	-2	-1
1 ST	5	80	-80	3	6	8	9	9	8	7	4	1	-2	-5	-7	-8
2	2	80	-70	7	10	12	13	11	9	6	2	-2	-6	-9	-11	-12
1 ST	5	80	-60	10	12	12	11	8	4	1	-3	-6	-8	-10	-10	-8
2	2	80	-50	9	9	8	6	3	0	-3	-5	-7	-8	-8	-6	-3
1 ST	5	80	-40	6	6	4	3	1	0	-2	-3	-4	-5	-5	-4	-3
2	2	80	-30	1	0	-1	-1	-1	1	1	1	2	1	0	-1	-1
1 ST	5	80	-20	1	-1	-2	-3	-3	-3	-2	-1	0	0	1	1	2
2	2	80	-10	0	-1	-1	-1	-1	0	0	0	0	0	1	1	0
1 ST	5	80	0	-2	-2	-2	-2	-2	-1	-1	0	1	2	2	2	1
2	2	80	10	3	2	1	0	-1	-2	-3	-4	-4	-3	-2	-1	0
1 ST	5	80	20	4	4	3	1	0	-2	-3	-4	-4	-4	-3	-1	0
2	2	80	30	0	-1	-2	-3	-3	-3	-2	-1	-1	0	1	2	3
1 ST	5	80	40	-4	-3	-2	-1	1	2	3	4	4	4	3	2	1
2	2	80	50	-4	-5	-5	-4	-3	-2	0	1	3	4	5	4	3
1 ST	5	80	-1	-1	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3

START COL	1	2	3	4	5	6	7	8	9	0								
1 ST	5	80	60	-3	-3	-4	-3	-2	-1	1	2	3	3	4	3	3	2	1
-1	-2																	
1 ST	5	80	70	-2	-4	-6	-7	-7	-6	-4	-2	0	2	4	6	7	6	4
2	0																	
1 ST	5	80	80	3	4	4	4	4	3	1	0	-2	-3	-4	-4	-4	-3	-1
0	2																	
1 ST	5	85	-80	5	9	11	12	12	11	9	4	1	-3	-7	-10	-12	-11	-9
-3	1																	
1 ST	5	85	-70	11	15	16	17	14	11	7	1	-4	-9	-13	-15	-16	-11	-7
-1	6																	
1 ST	5	85	-60	15	17	16	15	10	3	-1	-6	-10	-12	-14	-13	-13	-9	-7
11																		
1 ST	5	85	-50	13	12	10	7	2	-2	-6	-8	-10	-11	-11	-10	-7	-3	1
9																		
1 ST	5	85	-40	8	7	4	3	0	-1	-3	-4	-5	-6	-5	-4	-3	-1	0
5																		
1 ST	5	85	-30	-1	-2	-3	-2	-2	1	2	3	5	3	2	0	0	-1	-1
5																		
1 ST	5	85	-20	0	-2	-4	-4	-4	-4	-1	0	2	1	2	2	3	2	4
0																		
1 ST	5	85	-10	-2	-2	-2	-2	-1	0	2	2	2	2	3	3	1	1	-1
3	1																	
1 ST	5	85	0	-4	-3	-3	-2	-1	-1	0	0	2	4	4	4	3	1	-1
-2	-2																	
1 ST	5	85	10	3	3	2	1	-1	-3	-3	-5	-5	-3	-2	-1	0	1	3
-1	-3																	
1 ST	5	85	20	5	5	5	2	0	-3	-4	-5	-5	-5	-5	-4	-2	0	2
5	4																	
1 ST	5	85	30	0	-1	-2	-3	-4	-4	-4	-2	-2	0	2	3	4	4	2
5																		
1 ST	5	85	40	-5	-3	-2	-1	1	2	3	4	5	5	4	3	2	-1	-2
1	1																	
1 ST	5	85	50	-5	-6	-6	-5	-4	-2	0	1	4	5	6	6	5	4	3
-5	-5																	
1 ST	5	85	60	-4	-3	-5	-4	-4	-3	-2	0	2	4	4	5	4	4	3
-1	-4																	
1 ST	5	85	70	-3	-5	-8	-9	-9	-8	-5	-3	0	3	6	8	10	9	5
-3	3																	
1 ST	5	85	80	5	6	6	5</											

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START COL	1	2	3	4	5	6	7	8	9	10								
1 ST	5	90	-20	-1	-4	-6	-6	-5	-1	1	3	2	3	3	4	3	5	4
3	0																	
1 ST	5	90	-10	-3	-4	-3	-3	-2	1	3	4	3	4	4	4	2	1	-1
-4	-4																	
1 ST	5	90	0	-6	-5	-5	-3	-2	-1	1	1	3	6	5	5	4	1	1
-2	-5																	
1 ST	5	90	10	3	3	3	2	-1	-3	-4	-6	-6	-4	-2	-1	0	1	3
6	5																	
1 ST	5	90	20	6	7	7	3	1	-4	-5	-7	-7	-7	-7	-5	-2	-1	3
6	5																	
1 ST	5	90	30	0	-1	-2	-4	-5	-6	-5	-3	-3	0	2	4	5	5	6
1	1																	
1 ST	5	90	40	-6	-4	-2	-1	1	2	3	4	5	5	5	4	3	0	-2
-7	-6																	
1 ST	5	90	50	-6	-8	-7	-6	-5	-3	-1	0	4	6	8	8	7	5	4
-1	-5																	
1 ST	5	90	60	-4	-4	-6	-5	-5	-3	0	2	4	5	7	5	6	5	3
-1	-4																	
1 ST	5	90	70	-3	-6	-10	-12	-12	-11	-7	-4	-1	3	7	10	13	13	7
3	0																	
1 ST	5	90	80	7	9	8	7	7	4	0	-2	-5	-7	-9	-8	-7	-6	-4
2	5																	
1 ST	5	90	-80	6	7	6	3	1	-1	-3	-4	-5	-4	-4	-3	-2	0	2
4	5																	
1 ST	5	90	-70	9	9	7	2	-2	-5	-9	-11	-11	-8	-5	-3	0	3	5
8	6																	
1 ST	5	90	-60	9	8	5	0	-4	-8	-11	-14	-13	-10	-5	-1	2	6	9
11	9																	
1 ST	5	90	-50	6	5	4	1	-3	-5	-8	-9	-9	-7	-5	-2	1	4	7
8	6																	
1 ST	5	90	-40	3	3	2	-1	-3	-3	-3	-4	-5	-4	-3	-2	-1	1	4
6	5																	
1 ST	5	90	-30	0	0	0	-1	0	1	2	2	1	1	1	-2	-3	-2	0
1	1																	
1 ST	5	90	-20	-1	0	1	2	3	3	4	4	3	2	0	-2	-3	-4	-3
-2	-1																	
1 ST	5	90	-10	-2	-1	1	1	1	2	2	3	2	2	0	0	-1	-1	-2
-2	-2																	
1 ST	5	90	0	-1	0	0	-1	1	1	1	1	1	1	0	0	1	0	-1
-1	-1																	
1 ST	5	90	10	0	1	1	1	1	1	2	2	1	1	0	-1	-1	-4	-4
0	-1																	
1 ST	5	90	20	3	3	3	3	2	4	5	7	4	2	1	-4	-4	-6	-11
-2	-1																	
1 ST	5	90	30	0	2	4	5	4	6	7	8	8	5	3	-4	-10	-10	-12
-4	-3																	
1 ST	5	90	40	1	1	2	2	1	3	4	3	5	4	2	-4	-9	-7	-1
-1	-1																	
1 ST	5	90	50	3	2	2	0	-1	1	2	1	1	1	-2	-4	-6	-4	-2
2	4																	
1 ST	5	90	60	3	2	1	0	1	2	3	2	1	-1	-2	-3	-4	-3	-2
1	1																	

1 2 3 4 5 6 7 8 9 0

1	ST	6	20	70	0	0	0	0	0	1	2	3	3	2	0	-2	-3	-3	-2	-1	-
1	ST	6	20	80	-1	-1	-1	-1	0	1	1	1	1	1	1	-1	-1	0	0	0	-1
1	ST	-1	25	-80	4	3	2	-1	-2	-5	-5	-5	-3	-1	0	0	1	2	3	3	3
1	ST	4	25	-70	5	4	1	-3	-6	-9	-10	-9	-6	-2	0	3	4	6	6	7	7
1	ST	6	25	-60	4	2	0	-4	-7	-10	-11	-10	-8	-3	1	4	6	8	9	9	9
1	ST	6	25	-50	3	1	0	-3	-5	-7	-8	-7	-5	-2	0	3	5	6	7	7	7
1	ST	6	25	-40	-1	-1	-3	-4	-4	-3	-2	-1	1	2	3	3	2	2	2	2	2
1	ST	2	25	-30	-2	-2	-1	-1	0	1	3	4	4	4	3	1	-1	-2	-2	-2	-2
1	ST	-2	25	-20	-1	-1	0	1	2	3	4	4	3	2	1	0	-2	-3	-3	-2	-2
1	ST	-2	25	-10	-1	-1	-1	0	1	1	1	1	1	1	1	1	0	-1	-1	-1	-1
1	ST	-1	25	0	-1	0	0	0	0	1	1	0	0	0	0	0	0	0	-1	-1	-1
1	ST	0	25	10	0	0	0	1	0	-1	0	1	1	1	1	0	1	-1	1	-1	-2
1	ST	0	25	20	1	0	1	2	2	2	2	4	2	3	1	-2	-1	-1	-6	-4	-4
1	ST	-2	25	30	-1	1	2	3	2	3	5	5	4	2	1	-2	-4	-4	-5	-4	-4
1	ST	-3	25	40	1	2	2	1	2	2	3	3	3	1	0	-4	-5	-4	-2	-1	-1
1	ST	6	25	50	3	2	2	1	1	2	1	2	1	-1	-3	-4	-4	-3	-2	-1	-1
1	ST	2	25	60	2	2	2	2	2	2	3	2	1	1	-1	-4	-4	-3	-3	-2	-2
1	ST	1	25	70	0	0	1	1	1	2	3	4	3	2	0	-3	-3	-2	-2	-2	-2
1	ST	-2	25	80	-1	0	-1	1	-1	0	1	2	2	1	0	-1	-1	-1	1	1	1
1	ST	0	30	-80	-2	-3	-4	-5	-4	-4	-3	-2	0	3	5	5	6	5	2	3	3
1	ST	1	30	-70	-4	-5	-6	-7	-8	-6	-4	-1	3	6	8	8	8	6	4	2	2
1	ST	0	30	-60	-5	-6	-9	-9	-8	-5	-3	1	4	8	9	10	9	7	4	1	1
1	ST	-1	30	-50	-5	-6	-5	-6	-7	-6	-4	-1	4	8	10	10	8	6	3	1	1
1	ST	-2	30	-40	-7	-7	-6	-6	-5	-3	0	4	7	11	12	10	6	1	-1	-3	-3
1	ST	-5	30	-30	-5	-4	-3	-3	-2	0	3	5	7	9	8	6	1	-2	-4	-4	-4
1	ST	-4	30	-20	-3	-2	-2	0	0	1	2	3	4	4	4	3	0	-2	-3	-3	-3

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START COL	1	2	3	4	5	6	7	8	9	0								
1 ST	6	30	-10	-2	-2	-1	0	1	1	1	1	2	2	1	1	-1	-1	-1
-1	-2																	
1 ST	6	30	0	0	0	0	0	1	0	-1	0	1	1	1	1	0	0	0
0																		
1 ST	6	30	10	1	1	0	1	1	-1	0	1	0	1	1	1	0	0	-1
-1	0																	
1 ST	6	30	20	-1	0	1	1	1	1	1	1	1	1	1	1	0	-1	-3
-2	-2																	-2
1 ST	6	30	30	-1	0	1	2	2	2	3	3	2	1	1	-1	-2	-2	-3
-3	-3																	-3
1 ST	6	30	40	0	1	1	2	2	2	2	2	1	0	-1	-2	-3	-2	-1
-2	-2																	-1
1 ST	6	30	50	1	2	1	1	1	1	2	1	0	-1	-2	-2	-1	-1	-1
-1	-1																	
1 ST	6	30	60	1	1	0	0	1	2	2	2	1	-1	-1	-2	-1	-1	-1
0																		
1 ST	6	30	70	1	2	2	2	2	2	2	2	1	0	-2	-3	-2	-1	-1
0																		
1 ST	6	30	80	1	1	2	3	1	1	1	1	0	-1	-1	-2	-1	0	-1
-1	1																	-2
1 ST	6	35	-80	-5	-5	-5	-2	-3	-1	-2	1	2	3	4	5	5	4	2
-1	-1																	0
1 ST	6	35	-70	-8	-8	-8	-8	-6	-3	1	4	7	9	11	10	7	5	1
-2	-2																	-1
1 ST	6	35	-60	-12	-12	-10	-9	-5	-1	4	9	13	15	16	13	8	3	-2
-4	-6																	-6
1 ST	6	35	-50	-12	-11	-9	-7	-4	0	5	10	15	17	16	12	6	1	-5
-9	-11																	-9
1 ST	6	35	-40	-9	-8	-6	-5	-3	0	4	8	12	14	14	11	5	0	-6
11	-12																	-9
1 ST	6	35	-30	-4	-4	-3	-2	-1	0	2	5	7	9	9	6	2	-1	-4
10	-10																	-6
1 ST	6	35	-20	-2	-2	-2	-1	0	1	1	1	3	3	4	3	1	0	-2
-6	-5																	-2
1 ST	6	35	-10	-1	-1	-1	-1	-1	1	1	1	1	1	1	1	1	0	-1
-2	-2																	-1
1 ST	6	35	0	-1	-1	-1	0	1	1	1	1	0	0	1	1	1	0	0
-1	-1																	0
1 ST	6	35	10	-1	-1	0	0	0	0	0	0	0	0	1	1	1	0	0
-1	-1																	0
1 ST	6	35	20	-1	-1	0	0	1	1	1	1	1	0	0	0	0	0	0
0																		0
1 ST	6	35	30	-1	0	0	1	1	1	1	1	1	0	-1	0	-1	-1	-1
-1	-1																	-1
1 ST	6	35	40	0	-1	0	1	1	1	2	2	1	-1	0	-1	-1	-1	-1
-1	-1																	-1
1 ST	6	35	50	0	0	1	1	1	1	1	1	1	-1	-1	-1	-1	-1	-1
0	-1																	-1
1 ST	6	35	60	-1	0	-1	0	1	1	1	1	0	-1	-1	-1	-1	0	0
-1	-1																	1
1 ST	6	35	70	2	2	2	2	2	1	1	-1	0	-1	-1	-2	-2	-1	-1
1	1																	-1

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START COL	1	2	3	4	5	6	7	8	9	0						
1 ST	6	45	0	-1	-1	0	0	0	1	1	1	0	1	1	0	-1
-1	-1															
1 ST	6	45	10	-1	-1	0	1	-1	0	0	0	-1	0	0	1	1
1	0															
1 ST	6	45	20	0	0	0	0	0	-1	-1	-2	-2	-1	0	0	1
1	1															
1 ST	6	45	30	1	1	1	0	0	0	-1	-1	-2	-1	-1	0	0
1	1															
1 ST	6	45	40	-1	-1	0	0	1	1	1	1	0	-1	-1	-1	-1
1	1															
1 ST	6	45	50	-1	-1	0	1	1	1	1	0	-1	-1	-1	-1	-1
0	-1															
1 ST	6	45	60	-1	-1	-1	0	1	1	1	1	0	0	1	1	0
1	-1															
1 ST	6	45	70	-3	-2	-1	-1	0	1	2	2	1	1	0	0	1
1	-1															
1 ST	6	45	80	-1	-5	-8	-1	3	3	3	2	2	2	-3	-1	-1
1	-1															
1 ST	6	50	-80	-6	-5	-6	-4	-3	-9	5	6	7	5	4	4	0
1	1															
1 ST	6	50	-70	-10	-10	-9	-6	-3	1	5	9	11	13	11	9	6
-2	-4															
1 ST	6	50	-60	-12	-10	-8	-5	-1	3	8	12	14	14	12	8	4
-9	-10															
1 ST	6	50	-50	-8	-6	-4	-1	3	5	8	9	9	7	5	3	1
1	-12															
1 ST	6	50	-40	0	2	3	5	5	4	3	1	0	-1	-2	-3	-2
-7	-8															
1 ST	6	50	-30	3	3	4	3	3	1	-1	-2	-3	-4	-3	-2	-1
1	-1															
1 ST	6	50	-20	2	2	1	0	0	-1	-2	-2	-1	-2	-1	0	1
1	2															
1 ST	6	50	-10	1	0	-1	-1	-1	-2	-1	-1	-1	-1	1	2	1
2	2															
1 ST	6	50	0	-1	-1	0	0	0	-1	1	0	0	-1	0	1	0
1	1															
1 ST	6	50	10	0	-1	0	1	-1	-1	0	-1	-1	-1	1	1	1
0	-1															
1 ST	6	50	20	1	1	1	1	1	0	-1	-1	-2	-2	-1	1	2
1	0															
1 ST	6	50	30	1	1	1	1	1	1	1	0	-1	-2	-2	-1	0
2	1															
1 ST	6	50	40	-2	-2	-1	-1	1	1	2	3	2	2	1	0	-2
1	1															
1 ST	6	50	50	0	0	0	1	1	1	1	0	-1	-1	0	0	0
-3	-3															
1 ST	6	50	60	-1	-1	-1	-1	-1	1	1	1	1	1	0	1	1
0	0															
1 ST	6	50	70	-3	-2	-2	-1	1	1	1	1	1	1	1	1	1
1	-1															
1 ST	6	50	80	-2	-6	-9	-1	3	3	2	2	1	2	2	0	-1
0	-2															
1 ST	6	50														
2	2															

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START COL	1	2	3	4	5	6	7	8	9	0							
1 ST	6	60	10	2	1	0	0	-1	-1	-1	-2	-2	-1	0	1	1	1
2	3	60	20	2	-1	0	1	1	1	1	-1	-2	-3	-2	-1	-1	1
1 ST	6	60	30	1	1	1	1	2	2	2	1	0	-1	-2	-3	-3	-2
2	2	60	40	1	0	0	1	2	2	2	2	1	0	-1	-2	-2	-2
1 ST	6	60	50	0	1	1	1	2	1	1	1	-1	-1	-1	-1	-1	-1
-1	-1	60	60	1	2	2	2	2	1	1	-1	-2	-2	-2	-2	-1	-1
1 ST	6	60	70	-2	-1	-1	0	1	2	3	3	1	-1	-1	1	1	-1
-1	-1	60	80	-1	-2	-2	-1	-1	0	1	2	1	1	2	2	1	0
1 ST	6	65	-80	-3	-2	0	2	3	5	4	3	1	1	1	1	0	-3
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1 ST	6	65	-20	9	8	5	2	-1	-4	-7	-8	-8	-7	-5	-3	0	4
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-1	2																
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2 O	2	75	30	1	-1	-1	1	0	-1	1	2	2	1	0	-1	-1	-1	-2	-1
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1	2	75	40	-5	-7	-4	0	2	3	5	8	9	7	4	1	0	-2	-4	-5
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1 ST	6	75	70	10	9	4	2	3	3	0	-4	-6	-7	-8	-7	-3	0	1	1
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1 ST	6	80	-80	5	5	5	4	1	1	-1	-1	-1	-1	-1	-2	-3	-3	-1	-1
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13	ST	9	85	60	4	6	7	7	2	-6	-8	-5	0	3	2	1	0	-2	-5	-6
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11	9																			
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17	12																			

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1	2	1	7	25	60	0	1	1	1	3	3	4	5	3	3	1	-4	-4	-4	-4
1	3	0	7	25	70	-1	1	1	2	3	3	4	5	4	3	0	-3	-4	-4	-5
1	4	-2	7	25	80	-1	1	2	1	1	2	2	3	3	2	1	-1	-3	-3	-2
1	2	-1	7	30	-80	-7	-10	-10	-11	-7	-6	-1	3	7	10	12	13	11	10	6
1	1	-5	7	30	-70	-14	-18	-20	-20	-19	-15	-10	-3	6	15	20	23	24	21	15
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1	1	-1	7	30	-50	-13	-19	-19	-19	-16	-13	-9	-4	2	8	13	18	22	22	19
1	4	-5	7	30	-40	-10	-15	-17	-15	-10	-6	-3	0	4	8	11	13	14	13	10
1	2	-4	7	30	-30	-8	-10	-9	-7	-3	0	3	5	5	6	6	5	4	3	0
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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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-1	0																
1 ST	7	30	60	-1	-1	-1	0	2	2	3	3	2	1	-1	-2	-2	-2
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1 ST	7	35	30	-1	0	1	1	2	1	2	1	1	0	0	-1	-1	-2
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1 ST	7	35	70	1	1	1	1	1	0	0	0	1	0	0	-1	-2	-2
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1 ST	7	40	-60	-22	-21	-18	-16	-11	-4	3	11	18	22	24	21	18	12
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-14	-18																
1 ST	7	40	-40	-20	-14	-7	0	8	15	21	24	25	22	17	10	1	-8
-17	-23																

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MEMBER: SCIDAT9

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1 ST	7	45	60	-1	-1	-1	0	0	-1	-1
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1 ST	7	45	70	-2	-1	-1	0	1	1	0
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1 ST	7	45	80	1	-4	-8	-2	0	2	2
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1 ST	7	50	-80	-4	-5	-5	-6	-8	-6	-4
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1 ST	7	50	-70	-9	-10	-9	-9	-4	0	3
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1 ST	7	50	-60	-14	-11	-9	-7	-1	4	11
1	1	1	1	1	1	1	1	1	1	1
1 ST	7	50	-50	-12	-11	-8	-4	0	5	9
1	1	1	1	1	1	1	1	1	1	1
1 ST	7	50	-40	-10	-7	-2	2	5	8	9
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1 ST	7	50	-30	-4	-1	1	3	5	6	5
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1 ST	7	50	-20	-1	0	1	1	2	2	2
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1 ST	7	50	-10	0	-1	-1	-1	0	1	0
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1 ST	7	50	0	0	-1	-1	-1	0	-1	0
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1 ST	7	50	10	1	-1	-1	-1	-1	-2	-2
1	1	1	1	1	1	1	1	1	1	1
1 ST	7	50	20	1	0	1	0	-1	-2	-1
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1 ST	7	50	30	2	1	1	1	1	-1	-1
1	1	1	1	1	1	1	1	1	1	1
1 ST	7	50	40	1	1	1	1	1	0	-2
1	1	1	1	1	1	1	1	1	1	1
1 ST	7	50	50	1	1	1	1	1	-1	-2
1	1	1	1	1	1	1	1	1	1	1
1 ST	7	50	60	-1	-1	-2	-1	-1	1	1
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1 ST	7	50	70	-2	-2	-1	-1	0	2	2
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1 ST	7	50	80	0	-6	-10	-1	0	2	2
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1 ST	7	55	-80	-7	-8	-8	-7	-5	-2	0
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1 ST	7	55	-70	-9	-10	-9	-7	-3	0	4
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1 ST	7	55	-60	-11	-11	-8	-4	1	5	9
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START
COL

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-3	-2																	
1 ST	7	55	-20	2	2	3	4	3	2	0	-1	-1	-2	-2	-3	-2	-1	-1
0	1																	
1 ST	7	55	-10	2	1	1	1	2	0	-1	-1	-1	0	-2	-2	-1	-1	0
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1 ST	7	55	0	1	1	0	1	1	-1	-1	-1	0	-1	-1	-1	-1	0	1
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1 ST	7	55	20	2	1	1	1	1	-1	-1	-2	-2	-2	-2	0	1	2	2
2	2																	
1 ST	7	55	30	2	1	1	2	1	1	0	-1	-1	-3	-3	-2	-1	0	1
1	2																	
1 ST	7	55	40	1	1	1	1	1	1	1	1	1	-1	-2	-2	-1	-1	-1
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0	-2																	
1 ST	7	55	70	-3	-3	-2	-1	1	2	3	3	2	2	2	1	1	0	1
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1 ST	7	55	80	1	-6	-11	-2	0	2	2	3	3	2	2	2	-1	-2	1
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1 ST	7	60	-80	-6	-6	-6	-5	-3	1	3	5	6	5	5	5	4	3	1
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-5	-5																	
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1	1																	
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-1	0																	

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-4	-4																		
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1	ST	7	70	10	2	2	2	2	2	1	1	-1	-1	-1	-2	-2	-2	-2	-1	-1
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1	ST	7	75	-50	4	3	2	1	1	0	-3	-5	-6	-7	-5	-3	0	3	4	5
1	ST	7	75	-40	2	2	1	1	1	-1	-2	-3	-4	-4	-3	-2	0	2	3	4
1	ST	7	75	-30	1	2	2	1	1	0	-1	-1	-2	-2	-1	-1	1	2	2	2
1	ST	7	75	-20	0	0	1	1	1	1	0	1	1	0	-1	-1	0	0	0	0
1	ST	7	75	-10	1	2	2	2	2	2	1	1	0	-1	-2	-2	-2	-2	-2	-2
1	ST	7	75	0	2	2	2	1	0	1	-1	-1	-2	-2	-1	-1	-1	-1	0	0
1	ST	7	75	10	2	2	2	0	-1	0	0	0	-1	-1	0	0	-1	-1	-2	-1
1	ST	7	75	20	-1	0	0	-1	-1	1	2	2	2	1	1	1	-1	-2	-3	-2
1	ST	7	75	30	-2	-2	-1	-1	-1	1	2	4	3	3	2	0	-1	-2	-2	-2
1	ST	7	75	40	-2	-1	1	1	2	2	4	4	4	3	1	0	-2	-3	-3	-3
1	ST	7	75	50	1	1	2	3	2	4	2	2	2	1	-1	-2	-3	-3	-3	-3
1	ST	7	75	60	3	2	3	3	3	0	-1	-2	-2	-3	-4	-3	-1	-1	-1	-1

DATE: 90/09/10
TIME: 15:23
PAGE: 357DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0							
1 ST	7	75	70	5	3	4	4	2	-3	-7	-5	-4	-4	-1	2	3	3
4	5																
1 ST	7	75	80	3	3	1	-1	-3	-2	-1	-2	-3	-5	-3	0	4	7
6	4																
1 ST	7	80	-80	1	2	3	5	5	5	4	3	1	-1	-3	-4	-4	-3
-2	-1																
1 ST	7	80	-70	6	8	9	8	7	4	-1	-4	-7	-9	-8	-6	-3	-1
3	5																
1 ST	7	80	-60	9	9	8	6	2	-3	-8	-13	-15	-14	-10	-5	-1	4
9	9																
1 ST	7	80	-50	4	2	0	-3	-6	-9	-11	-12	-11	-7	-2	3	7	10
9	7																
1 ST	7	80	-40	1	-1	-3	-4	-5	-6	-6	-7	-5	-3	-1	3	7	9
6	3																
1 ST	7	80	-30	-1	-2	-2	-3	-3	-2	-2	-1	0	1	3	4	5	4
2	1																
1 ST	7	80	-20	-2	-2	-2	-1	1	2	3	3	3	2	2	1	0	-1
-2	-2																
1 ST	7	80	-10	0	1	2	2	3	3	2	2	1	0	-1	-2	-3	-2
-2	-1																
1 ST	7	80	0	4	4	0	-4	-2	3	3	-1	-5	-2	6	4	-2	-6
1	4																
1 ST	7	80	10	5	6	1	-3	-2	2	2	-3	-5	-1	5	4	-2	-5
-1	2																
1 ST	7	80	20	2	2	-1	-4	-3	2	5	2	-2	0	4	4	-2	-7
2	2																
1 ST	7	80	30	-3	-1	-1	-2	-2	1	3	2	1	3	5	5	0	-3
-1	-3																
1 ST	7	80	40	-3	-1	2	3	3	2	3	3	3	2	1	-2	-4	-5
-3	-3																
1 ST	7	80	50	1	2	5	6	3	-1	-1	0	1	0	-2	-2	-3	-5
1	2																
1 ST	7	80	60	4	3	3	4	6	4	-1	-5	-5	-4	-5	-3	0	2
1	2																
1 ST	7	80	70	5	4	5	5	3	-3	-8	-9	-7	-6	-6	-4	-1	3
5	5																
1 ST	7	80	80	2	1	0	-2	-2	-1	-1	-3	-4	-5	-3	-3	0	5
7	4																
1 ST	7	85	-80	3	5	5	7	6	5	3	1	-1	-3	-5	-6	-5	-5
-1	0																
1 ST	7	85	-70	9	11	12	10	8	3	-4	-8	-10	-12	-12	-10	-7	-3
5	8																
1 ST	7	85	-60	12	12	10	6	0	-7	-14	-19	-21	-17	-11	-4	1	7
13	12																
1 ST	7	85	-50	4	1	-2	-7	-12	-15	-17	-17	-14	-6	2	8	13	16
11	8																
1 ST	7	85	-40	-2	-4	-7	-9	-10	-10	-9	-9	-5	-1	3	9	13	15
7	2																
1 ST	7	85	-30	-4	-5	-5	-6	-6	-5	-2	-1	1	3	5	7	8	6
1	1																
1 ST	7	85	-20	-5	-5	-4	-3	0	3	5	6	6	5	5	4	2	-1
-4	-5																

DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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START COL	1	2	3	4	5	6	7	8	9	10
1 ST	7	90	80	-1	-5	-5	-3	1	3	0
11	5									
1 ST	8	20	-80	20	18	11	4	-3	-7	-11
14	18									
1 ST	8	20	-70	27	22	11	0	-10	-15	-17
21	27									
1 ST	8	20	-60	24	15	2	-9	-18	-20	-18
23	27									
1 ST	8	20	-50	13	6	-4	-13	-17	-16	-11
15	16									
1 ST	8	20	-40	6	2	-3	-7	-9	-8	-4
6	8									
1 ST	8	20	-30	2	0	-1	-2	-3	-1	1
0	2									
1 ST	8	20	-20	-1	-1	0	1	1	2	3
-3	-2									
1 ST	8	20	-10	-2	-1	-1	1	1	1	2
-2	-2									
1 ST	8	20	0	-1	-1	-1	0	0	0	0
0	-1									
1 ST	8	20	10	0	0	0	1	1	1	1
-1	-1									
1 ST	8	20	20	3	3	2	3	3	4	2
-1	-1									
1 ST	8	20	30	2	4	5	5	4	6	6
-4	-1									
1 ST	8	20	40	-1	1	4	3	2	5	5
-3	-2									
1 ST	8	20	50	-1	-1	0	-1	1	3	4
-2	-2									
1 ST	8	20	60	-1	-1	-2	-1	1	4	5
-2	-1									
1 ST	8	20	70	-2	-2	-2	-1	1	3	4
-2	-1									
1 ST	8	20	80	-1	-2	-2	-1	0	1	2
-1	-1									
1 ST	8	25	-80	9	4	-4	-8	-12	-14	-13
14	12									
1 ST	8	25	-70	12	3	-9	-17	-22	-22	-19
21	18									
1 ST	8	25	-60	11	0	-12	-20	-24	-23	-17
21	18									
1 ST	8	25	-50	7	-2	-12	-18	-19	-16	-9
14	13									
1 ST	8	25	-40	2	-3	-8	-11	-10	-6	-1
5	5									
1 ST	8	25	-30	-1	-2	-4	-4	-3	0	3
-1	-1									
1 ST	8	25	-20	-1	-1	0	0	1	2	3
-2	-2									
1 ST	8	25	-10	-1	-1	0	0	1	1	1
-1	-1									

DATASET: CWEJ412.GRAMOD90 DATA
MEMBER: SCIDAT9

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SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0
1	ST	8	25	0	0	0	0	0	0	0
1	O	0	0	0	0	0	0	0	0	0
1	ST	8	25	10	1	0	0	0	0	-1
1	O	0	0	0	1	1	0	0	0	0
1	ST	8	25	20	2	0	2	1	2	2
1	-1	-2	0	2	2	1	2	3	2	2
1	ST	8	25	30	1	2	3	2	1	-2
1	-5	-2	0	2	3	2	1	3	2	1
1	ST	8	25	40	0	1	2	3	4	3
1	-4	-2	0	1	2	2	3	4	3	2
1	ST	8	25	50	1	1	1	2	3	4
1	-3	-2	0	1	1	2	3	4	3	2
1	ST	8	25	60	-1	-1	0	1	3	5
1	-4	-2	0	-1	-1	0	1	3	4	5
1	ST	8	25	70	-2	-1	0	1	2	3
1	-3	-3	0	-1	0	1	2	3	5	4
1	ST	8	25	80	-1	-2	-1	0	1	2
1	-1	-1	0	-1	-2	-1	0	1	2	2
1	ST	8	30	-80	0	-5	-9	-10	-12	-9
1	6	2	0	-5	-9	-10	-12	-9	-11	-6
1	ST	8	30	-70	-9	-16	-20	-21	-19	-14
1	7	-1	0	-9	-16	-20	-21	-19	-14	-7
1	ST	8	30	-60	-16	-23	-25	-22	-17	-9
1	2	-6	0	-16	-23	-25	-22	-17	-9	0
1	ST	8	30	-50	-5	-13	-17	-17	-14	-9
1	7	2	0	-5	-13	-17	-17	-14	-9	-3
1	ST	8	30	-40	-4	-9	-12	-12	-9	-3
1	2	0	0	-4	-9	-12	-12	-12	-9	4
1	ST	8	30	-30	-4	-5	-7	-5	-2	6
1	-1	-2	0	-4	-5	-7	-5	-2	6	7
1	ST	8	30	-20	-2	-2	-2	0	1	2
1	-1	-2	0	-2	-2	-2	-2	0	1	2
1	ST	8	30	-10	-1	-1	-1	0	1	1
1	-1	-1	0	-1	-1	-1	-1	0	1	1
1	ST	8	30	0	0	0	0	-1	-1	-1
1	0	0	0	0	0	0	0	-1	-1	0
1	ST	8	30	10	1	0	0	1	0	-1
1	0	0	0	1	0	0	1	0	-1	0
1	ST	8	30	20	0	0	1	2	1	0
1	-1	-1	0	0	1	2	1	0	1	0
1	ST	8	30	30	1	1	2	3	2	1
1	-3	-1	0	1	1	2	3	2	1	-1
1	ST	8	30	40	-1	1	1	1	3	3
1	-3	-1	0	-1	1	1	1	3	3	2
1	ST	8	30	50	0	0	1	1	2	3
1	-2	-2	0	0	1	1	2	3	3	2
1	ST	8	30	60	-1	0	1	1	2	3
1	-2	-2	0	-1	0	1	1	2	3	4
1	ST	8	30	70	1	0	1	1	1	2
1	-2	-1	0	1	0	1	1	1	2	3
1	ST	8	30	80	2	-3	-1	-1	-2	0
1	-2	-1	0	2	-3	-1	-1	-2	0	1
1	ST	8	30	80	2	-3	-1	-1	-2	0
1	-2	-1	0	2	-3	-1	-1	-2	0	1

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START COL	1	2	3	4	5	6	7	8	9	10
1 ST 8	40	10	1	1	0	0	0	0	0	0
1 ST 1	1	1	0	0	0	0	0	0	0	0
1 ST 8	40	20	0	0	0	0	0	0	0	0
1 ST 1	1	1	0	0	0	0	0	0	0	0
1 ST 8	40	30	1	1	1	1	0	0	0	0
1 ST 1	1	1	1	1	1	1	0	0	0	0
1 ST 8	40	40	1	1	1	1	1	0	0	0
1 ST 1	1	1	1	1	1	1	0	0	0	0
1 ST 8	40	50	1	1	1	1	1	0	0	0
1 ST 1	1	1	1	1	1	1	0	0	0	0
1 ST 8	40	60	1	2	2	1	1	0	0	0
1 ST 1	1	1	2	2	1	1	0	0	0	0
1 ST 8	40	70	2	2	2	1	0	0	0	0
1 ST 1	1	1	2	2	1	0	0	0	0	0
1 ST 8	40	80	1	2	1	0	0	0	0	0
1 ST 1	1	1	2	1	0	0	0	0	0	0
1 ST 8	45	-80	-9	-9	-4	0	0	0	0	0
1 ST 1	1	1	-9	-9	-4	0	0	0	0	0
1 ST 8	45	-70	-16	-13	-10	-6	-1	4	8	12
1 ST 1	1	1	-16	-13	-10	-6	-1	4	8	12
1 ST 8	45	-60	-18	-12	-5	2	7	11	13	12
1 ST 1	1	1	-18	-12	-5	2	7	11	13	12
1 ST 8	45	-50	-8	-1	6	11	11	9	6	3
1 ST 1	1	1	-8	-1	6	11	11	9	6	3
1 ST 8	45	-40	-6	-2	3	8	11	9	5	1
1 ST 1	1	1	-6	-2	3	8	11	9	5	1
1 ST 8	45	-30	-2	0	3	6	7	6	2	-1
1 ST 1	1	1	-2	0	3	6	7	6	2	-1
1 ST 8	45	-20	0	1	1	2	2	2	1	0
1 ST 1	1	1	0	1	1	2	2	2	1	0
1 ST 8	45	-10	1	0	1	1	1	1	1	1
1 ST 1	1	1	0	0	1	1	1	1	1	1
1 ST 8	45	0	-1	-1	0	0	0	0	0	0
1 ST 1	1	1	-1	-1	0	0	0	0	0	0
1 ST 8	45	10	-1	-1	0	0	0	0	0	0
1 ST 1	1	1	-1	-1	0	0	0	0	0	0
1 ST 8	45	20	1	1	1	1	1	1	1	1
1 ST 1	1	1	1	1	1	1	1	1	1	1
1 ST 8	45	30	1	1	1	1	1	1	1	1
1 ST 1	1	1	1	1	1	1	1	1	1	1
1 ST 8	45	40	1	1	1	1	1	1	1	1
1 ST 1	1	1	1	1	1	1	1	1	1	1
1 ST 8	45	50	1	1	1	1	1	1	1	1
1 ST 1	1	1	1	1	1	1	1	1	1	1
1 ST 8	45	60	-1	0	0	-1	0	1	1	1
1 ST 1	1	1	-1	0	0	-1	0	1	1	1
1 ST 8	45	70	-1	-1	-1	-1	-1	-1	-1	-1
1 ST 1	1	1	-1	-1	-1	-1	-1	-1	-1	-1
1 ST 8	45	80	0	-5	-4	-1	-1	1	1	1
1 ST 1	1	1	0	-5	-4	-1	-1	1	1	1
1 ST 8	50	-80	-7	-5	-4	0	6	3	10	12
1 ST 1	1	1	-7	-5	-4	0	6	3	10	12
1 ST 8	11	-8	-	-	-	-	-	-	-	-
1 ST 1	1	1	-	-	-	-	-	-	-	-

START

COL

[illegible]

START COL	1	2	3	4	5	6	7	8	9	0							
1 ST 1	8	70	30	2	2	2	1	1	1	0	-1	-2	-3	-2	-2	-2	-1
1 ST 1	1																
1 ST 8	8	70	40	-3	-2	-1	-1	0	1	3	3	3	2	2	1	1	-1
1 ST -3	-2																
1 ST 8	8	70	50	-1	0	1	1	1	1	3	2	1	-1	0	-1	-2	-3
1 ST -1	-2																
1 ST 8	8	70	60	2	3	3	4	3	2	0	-1	-2	-2	-3	-4	-3	-2
1 ST -1	1																
1 ST 8	8	70	70	3	4	4	3	1	-2	-4	-4	-4	-3	-3	-2	-1	1
1 ST 2	3																
1 ST 8	8	70	80	4	2	-2	-1	2	3	2	-1	-4	-4	-2	-1	-1	-2
1 ST 1	4																
1 ST 8	8	75	-80	8	10	12	11	10	6	1	-2	-5	-8	-9	-10	-9	-8
1 ST 2	5																
1 ST 8	8	75	-70	12	15	18	17	14	8	-1	-8	-13	-16	-16	-15	-11	-8
1 ST 5	5																
1 ST 8	8	75	-60	10	14	16	14	10	3	-5	-11	-14	-14	-12	-10	-7	-5
1 ST 6	7																
1 ST 8	8	75	-50	2	4	6	6	6	3	-1	-4	-6	-6	-5	-3	-1	0
1 ST 1	0																
1 ST 8	8	75	-40	0	3	5	5	3	1	-2	-4	-6	-6	-4	-1	2	1
1 ST 1	1																
1 ST 8	8	75	-30	0	2	4	4	3	2	0	-2	-4	-4	-2	-1	1	1
1 ST -1	-1																
1 ST 8	8	75	-20	1	3	3	3	2	2	1	-1	-3	-3	-2	-1	-2	-1
1 ST 0	0																
1 ST 8	8	75	-10	3	3	3	1	-1	-1	0	-2	-4	-3	-2	-1	-2	-1
1 ST 2	2																
1 ST 8	8	75	0	5	5	5	3	1	2	0	-3	-5	-5	-4	-4	-3	-1
1 ST 2	3																
1 ST 8	8	75	10	4	5	5	3	2	1	0	-3	-4	-4	-3	-3	-4	0
1 ST 2	2																
1 ST 8	8	75	20	3	4	4	4	3	2	1	-2	-3	-4	-3	-4	-3	-2
1 ST 1	1																
1 ST 8	8	75	30	2	2	3	4	3	2	1	1	-1	-2	-2	-2	-3	-2
1 ST -1	0																
1 ST 8	8	75	40	-3	-3	-1	1	1	1	3	4	3	3	2	1	-1	-2
1 ST -3	-3																
1 ST 8	8	75	50	-1	0	1	2	2	2	2	4	3	1	0	-1	-1	-2
1 ST -2	-2																
1 ST 8	8	75	60	2	5	5	6	7	5	2	0	-2	-2	-4	-5	-6	-5
1 ST -2	0																
1 ST 8	8	75	70	1	1	4	6	5	1	-2	-4	-4	-5	-4	-3	-1	-1
1 ST 3	3																
1 ST 8	8	75	80	7	5	1	0	2	4	4	1	-5	-8	-7	-5	-3	-3
1 ST 3	7																
1 ST 8	8	80	-80	9	10	12	10	6	1	-4	-6	-8	-9	-9	-7	-6	-2
1 ST 5	5																
1 ST 8	8	80	-70	14	16	19	15	10	1	-8	-13	-17	-19	-16	-14	-9	-5
1 ST 10	10																
1 ST 8	8	80	-60	11	12	14	10	5	-3	-12	-14	-16	-15	-10	-7	-3	-1
1 ST 10	10																

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DATA SET: CWEJ412.GRAMOD90.DAT
MEMBER: SCIDAT9

[illegible]

START

[illegible]

DATE: 90/09/10
TIME: 15:23
PAGE: 373DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	10							
1 ST	9	50	-20	-1	0	0	1	3	2	2	1	1	-1	-2	-2	-2	-1
-1	-1																
1 ST	9	50	-10	0	0	1	2	2	1	1	0	0	-1	-2	-1	-1	-1
0	0																
1 ST	9	50	0	0	1	1	2	2	2	1	0	0	-1	-1	-1	-1	-1
0	0																
1 ST	9	50	10	0	1	2	2	2	2	1	1	0	-1	-1	-1	-1	-1
0	0																
1 ST	9	50	20	1	1	1	1	1	0	0	-1	-1	-1	0	0	0	0
0	0																
1 ST	9	50	30	0	0	0	0	0	-1	0	0	0	0	0	0	0	0
0	0																
1 ST	9	50	40	-1	-1	-1	-1	-1	0	1	1	2	2	2	1	1	0
0	0																
1 ST	9	50	50	-1	-1	-1	-1	-1	-1	0	0	1	2	3	3	1	0
-1	-1																
1 ST	9	50	60	-2	-2	-2	-2	-1	-1	-1	0	1	2	3	4	3	2
0	0																
1 ST	9	50	70	-2	-3	-3	-2	-1	0	-1	0	1	2	3	3	3	1
0	0																
1 ST	9	50	80	0	-2	-3	-2	1	1	2	2	2	2	2	0	-2	0
-1	-1																
1 ST	9	55	-80	-12	-5	0	5	10	14	18	19	16	11	4	-1	-6	-10
17	-15																
1 ST	9	55	-70	-18	-8	1	9	17	24	28	28	24	17	9	0	-9	-16
27	-24																
1 ST	9	55	-60	-21	-11	-1	7	16	23	30	35	27	20	3	-6	-15	-14
25	-22																
1 ST	9	55	-50	-11	-6	-1	8	14	18	20	19	16	10	3	-2	-7	-12
18	-16																
1 ST	9	55	-40	-5	-3	1	5	7	9	9	7	6	4	2	-1	-3	-5
-8																	
1 ST	9	55	-30	-1	-1	0	1	2	2	1	1	1	2	1	0	-1	-1
-2																	
1 ST	9	55	-20	0	-1	0	1	2	1	0	0	1	1	0	-1	-1	0
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1 ST	9	55	-10	0	0	0	1	1	1	0	0	1	1	0	-1	-1	0
0	0																
1 ST	9	55	0	1	0	1	1	2	1	0	1	1	0	-1	-2	-1	-1
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1 ST	9	55	10	0	0	1	2	2	2	1	1	1	0	-1	-2	-2	-1
-1																	
1 ST	9	55	20	0	0	1	2	1	1	1	1	1	0	0	-1	-1	-1
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1 ST	9	55	30	0	0	1	1	1	1	0	1	0	0	0	0	0	-1
0	0																
1 ST	9	55	40	-1	-1	-1	-1	-1	0	0	1	1	2	1	1	1	0
0	0																
1 ST	9	55	50	-1	-1	0	0	0	0	0	0	0	1	1	2	2	1
-1																	
1 ST	9	55	60	-2	-3	-2	-1	0	1	1	1	1	2	2	2	2	1
-2																	

START

COL

	1	2	3	4	5	6	7	8	9	0							
1 ST	9	55	70	-4	-3	-2	1	2	2	2	2	2	2	1	1	1	-1
-1	-2																
1 ST	9	55	80	0	-4	-7	-4	1	4	4	5	4	3	2	1	-2	-5
1	1																-1
1 ST	9	60	-80	-8	0	6	11	16	19	19	16	11	6	1	-4	-10	-13
-14																	-18
1 ST	9	60	-70	-14	-4	6	12	19	24	26	24	19	12	4	-3	-11	-18
25	-21																-25
1 ST	9	60	-60	-14	-4	6	14	21	26	27	23	17	11	4	-4	-12	-17
26	-23																-24
1 ST	9	60	-50	-8	-3	3	10	15	19	20	17	12	6	-1	-6	-10	-12
15	-13																-16
1 ST	9	60	-40	-2	-1	2	6	8	10	8	6	3	1	-2	-3	-5	-6
-5	-4																-6
1 ST	9	60	-30	1	1	2	2	3	2	-1	-1	0	0	-1	-2	-1	-1
0	1																0
1 ST	9	60	-20	1	0	0	1	1	0	-2	-3	-1	-1	-1	-1	0	1
2	2																2
1 ST	9	60	-10	1	0	0	1	1	0	-1	-1	-1	0	-1	-1	0	1
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0	0																-1
1 ST	9	60	20	0	0	1	2	2	2	2	3	2	1	0	-2	-2	-2
-1	-1																-1
1 ST	9	60	30	0	1	2	3	2	2	2	2	1	0	-1	-2	-2	-2
0	0																0
1 ST	9	60	40	0	0	1	2	2	1	1	1	1	0	0	-1	-1	-2
-1	0																-1
1 ST	9	60	50	0	1	2	3	2	2	1	0	0	0	0	-1	-1	-2
-1	-1																-2
1 ST	9	60	60	0	0	1	2	3	2	1	1	1	1	0	-1	-2	-3
-1	-1																-1
1 ST	9	60	70	-1	0	1	1	1	2	3	2	2	1	1	1	0	-2
-2	-2																-2
1 ST	9	60	80	0	0	-1	-2	0	2	2	2	1	1	0	0	0	-1
0	0																-1
1 ST	9	65	-80	-3	4	10	14	17	18	16	11	5	1	-4	-9	-12	-14
12	-9																

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MEMBER: SCIDAT9

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2	2	9	65	0	1	0	0	1	0	-1	-1	-1	-1	0	1	2	2
1 ST	9	65	10	0	0	0	0	1	1	0	0	-1	-1	-1	1	1	1
1	1	9	65	20	1	1	1	2	1	1	1	0	-1	-2	-2	-1	-1
1 ST	9	65	30	0	2	2	3	3	2	1	1	0	-1	-2	-3	-2	-2
0	0	9	65	40	0	1	2	3	3	2	0	1	-1	-2	-2	-2	-2
1 ST	9	65	50	0	0	2	2	2	2	1	1	0	0	0	-2	-2	-2
-1	-1	9	65	60	-1	0	1	1	2	1	1	2	1	0	-2	-2	-2
1 ST	9	65	70	0	1	1	0	0	1	1	1	1	1	1	0	-1	-1
-1	-1	9	65	80	0	-1	-2	-3	-2	0	1	1	0	1	1	1	0
1 ST	9	70	-80	2	7	11	13	13	9	5	-1	-4	-8	-10	-12	-11	-10
-5	-2	9	70	-70	2	8	13	15	14	10	4	-2	-5	-8	-11	-13	-10
1 ST	9	70	-60	1	5	9	11	12	11	9	4	-1	-3	-6	-8	-10	-8
-3	-2	9	70	-50	-2	1	5	7	9	9	7	3	0	-4	-7	-8	-6
1 ST	9	70	-40	1	2	3	5	6	6	5	4	0	-2	-4	-5	-5	-4
-1	0	9	70	-30	3	3	3	3	2	0	-1	-2	-3	-3	-2	-1	-1
1 ST	9	70	-20	1	1	1	0	0	0	-2	-2	-2	-1	-1	0	0	1
2	1	9	70	-10	1	1	1	0	-1	0	-1	-2	-2	0	1	1	1
1 ST	9	70	0	1	1	1	0	-1	-1	-2	-2	-1	-1	0	0	1	1
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1 ST	9	70	20	2	2	2	1	0	0	-1	-1	-1	-1	-1	-1	0	0
2	2	9	70	30	1	2	3	3	2	1	0	0	-1	-1	-1	0	0
1 ST	9	70	40	0	1	2	3	3	1	0	0	0	-1	-1	-1	-2	-2
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1 ST	9	70	60	-1	-1	-1	-1	-1	0	1	2	2	2	2	1	0	-1
-1	-1	9	70	70	1	1	0	-1	-2	-2	-1	0	1	2	1	1	0
1 ST	9	70	70	1	1	0	-1	-2	-2	-1	-1	0	1	2	1	0	0

[illegible]

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START COL	1	2	3	4	5	6	7	8	9	0								
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3 -1	9	80	10	-1	2	3	0	-3	-2	-5	-8	-6	1	4	2	2	4	6
1 ST	9	80	20	3	3	3	0	-2	-3	-4	-7	-9	-6	0	4	4	2	3
4 0	9	80	30	0	1	3	3	1	-1	-3	-4	-3	0	2	2	0	0	1
1 ST	9	80	40	-2	-1	2	3	1	0	1	1	1	-1	-1	2	1	-1	-1
2 1	9	80	50	-4	-4	-2	-2	-3	-4	-1	2	4	4	4	4	3	1	0
-1 -2	9	80	60	-3	-4	-4	-4	-5	-5	-2	1	4	5	5	4	3	3	2
1 ST	9	80	70	1	-1	-2	-3	-5	-6	-6	-3	0	2	3	3	3	3	3
3 2	9	80	80	-1	-2	-2	-2	-4	-6	-5	-2	1	3	4	6	7	6	2
1 ST	9	85	-80	11	8	6	7	1	-7	-9	-11	-11	-10	-9	-8	-6	-1	3
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1 ST	9	85	-60	20	11	4	5	-2	-10	-9	-13	-17	-16	-17	-13	-12	-5	3
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25 27	9	85	-40	-10	-1	3	-1	-2	5	9	-7	-15	-4	13	11	2	-5	-1
1 ST	9	85	-30	-11	0	3	0	0	11	15	1	-11	-3	13	10	2	-5	1
4 -3	9	85	-20	0	3	-3	-7	-3	11	17	8	-2	-3	5	4	-3	-6	-3
1 ST	9	85	-10	-2	4	2	-4	-5	6	12	3	-7	-5	6	8	-1	-6	-1
-7 -10	9	85	0	-5	5	6	-2	-7	1	6	-2	-12	-7	7	11	1	-6	1
1 ST	9	85	10	-7	5	10	0	-8	-4	0	-7	-16	-9	9	15	4	-5	3
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6 -7	9	85	30	-1	1	7	9	6	1	-3	-6	-9	-8	-1	4	2	-3	-4
1 ST	9	85	40	-4	1	8	9	4	-1	1	3	0	-5	-5	0	3	0	-4
5 3	9	85	50	-7	-5	0	2	-4	-8	-3	6	8	4	1	3	4	2	-1
-3 -4	9	85	60	-6	-5	-4	-6	-9	-9	-4	3	8	7	4	2	1	4	7
1 ST	9	85	70	-1	-5	-5	-4	-6	-10	-10	-4	3	6	4	2	3	5	6
3 -3	9	85	80	-3	-3	1	4	1	-5	-5	0	4	5	3	5	6	3	-4
1 ST	9	85	-5	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2

START
COL

	1	2	3	4	5	6	7	8	9	0								
1 ST	9	90	-80	14	9	5	-3	-13	-15	-16	-14	-12	-10	-8	-4	2	7	16
21 20	9	90	-70	19	20	17	18	4	-8	-16	-20	-24	-20	-18	-13	-1	8	19
1 ST	9	90	-60	25	13	3	3	-6	-16	-15	-18	-21	-19	-14	-12	-2	7	21
19 17	9	90	-50	8	4	-4	-6	-10	-14	-9	-18	-18	-17	-1	1	0	-2	10
1 ST	9	90	-40	-11	-2	3	-2	-4	4	8	-9	-17	-4	16	13	4	-5	0
33 34	9	90	-30	-13	-1	3	0	-1	13	18	2	-12	-2	15	12	2	-6	1
1 ST	9	90	-20	-1	3	-4	-8	-4	13	21	11	0	-2	7	5	-4	-7	-4
1 ST	9	90	-10	-3	4	2	-5	-5	7	15	5	-7	-4	6	9	-2	-7	-1
10 -13	9	90	0	-5	6	7	-2	-7	2	7	-2	-14	-9	7	12	1	-7	2
1 ST	9	90	10	-8	5	11	0	-9	-5	0	-9	-19	-12	10	17	4	-4	4
1 ST	9	90	20	3	8	10	3	-3	-2	-3	-13	-23	-16	2	14	9	-1	-1
1 ST	9	90	30	-1	0	7	9	6	0	-5	-7	-11	-9	0	6	4	-2	-3
1 ST	9	90	40	-5	0	8	9	3	-1	2	4	1	-6	-5	1	4	1	-4
1 ST	9	90	50	-9	-6	-1	1	-5	-10	-4	7	9	6	3	4	6	4	0
1 ST	9	90	60	-7	-6	-6	-8	-12	-12	-6	3	9	9	6	4	3	5	9
1 ST	9	90	70	-1	-6	-6	-5	-7	-12	-13	-5	3	7	4	3	4	7	7
1 ST	9	90	80	-3	-4	1	4	1	-7	-7	-1	4	6	4	6	7	5	-4
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1 ST	9	90	-70	19	9	-4	-18	-27	-29	-28	-25	-21	-15	-7	1	10	19	27
1 ST	9	90	-60	16	7	-6	-19	-28	-31	-29	-25	-20	-13	-5	4	13	22	29
1 ST	9	90	-50	10	2	-6	-16	-21	-22	-21	-16	-12	-7	-1	5	11	17	21
1 ST	9	90	-40	5	2	-4	-8	-9	-9	-8	-5	-4	-3	-2	2	4	6	9
1 ST	9	90	-30	2	1	-1	-1	-1	-1	-2	0	0	-1	-2	0	0	1	2
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1 ST	9	90	-10	0	0	1	1	2	0	-1	0	1	1	0	1	0	0	-1
1 ST	9	90	0	-1	0	0	1	1	0	1	0	1	1	0	0	0	0	-1

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START COL	1	2	3	4	5	6	7	8	9	10									
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-2	-1																		
1 ST	10	20	20	-1	0	1	1	1	2	5	5	5	3	0	1	-1	-6	-5	
-4	-4																		
1 ST	10	20	30	-3	0	2	1	3	3	4	6	6	5	2	-1	-2	-6	-4	
-5	-6																		
1 ST	10	20	40	-1	-1	-1	-1	1	0	-1	1	2	1	-1	-2	0	-1	3	
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1 ST	10	20	50	10	8	4	1	1	1	0	-3	-5	-6	-8	-10	-9	-6	-1	6
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1 ST	10	20	60	16	14	11	7	5	3	2	-1	-6	-10	-12	-16	-16	-12	-6	1
9	14																		
1 ST	10	20	70	14	15	13	10	7	4	1	-1	-6	-9	-12	-14	-14	-12	-7	-1
5	11																		
1 ST	10	20	80	8	9	8	7	4	1	-1	-2	-4	-5	-7	-8	-7	-6	-3	0
3	6																		
1 ST	10	25	-80	4	-2	-10	-16	-19	-18	-15	-10	-5	-2	3	7	11	14	17	17
15	11																		
1 ST	10	25	-70	8	-2	-14	-24	-29	-29	-25	-17	-10	-4	4	11	17	22	26	27
23	17																		
1 ST	10	25	-60	8	-2	-14	-25	-30	-31	-27	-19	-12	-5	3	12	19	24	28	28
25	17																		
1 ST	10	25	-50	5	-2	-12	-20	-24	-24	-20	-14	-8	-2	3	10	15	19	22	22
19	13																		
1 ST	10	25	-40	1	-3	-7	-11	-11	-9	-6	-3	-1	0	1	4	6	8	10	10
8	5																		
1 ST	10	25	-30	0	-1	-2	-2	-1	0	0	1	1	0	0	1	1	1	2	2
1	0																		
1 ST	10	25	-20	0	0	1	2	2	1	0	0	0	1	-1	0	-1	-1	-1	-1
-1	0																		
1 ST	10	25	-10	0	0	1	1	1	1	0	0	-1	0	1	0	0	0	-1	-1
-1	0																		
1 ST	10	25	0	0	0	1	1	1	1	1	0	1	0	0	0	0	-1	-1	-1
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-2	-1																		
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-3	-3																		
1 ST	10	25	40	0	-1	-3	-4	-4	-3	-2	-1	0	1	1	1	1	4	4	5
-5	-4																		
1 ST	10	25	50	13	8	2	-3	-6	-8	-9	-10	-10	-11	-10	-8	-4	2	9	15
3	2																		
1 ST	10	25	60	24	19	10	2	-4	-8	-11	-14	-18	-18	-18	-17	-12	-4	6	17
17	16																		
1 ST	10	25	70	26	21	14	7	0	-6	-10	-14	-18	-20	-20	-19	-14	-6	3	13
24	26																		
1 ST	10	25	80	16	12	9	6	0	-4	-8	-10	-12	-13	-13	-10	-7	-1	3	9
20	25																		
1 ST	10	30	-80	0	-3	-6	-5	-9	-9	-11	-6	-3	3	7	7	10	11	8	7
12	14																		
1 ST	10																		
3	0																		

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-3	-2																		
1 ST 10	35	30	-4	-4	-3	-2	0	2	3	4	4	5	4	3	2	0	-2		
-3	-3																		
1 ST 10	35	40	-4	-8	-10	-11	-10	-9	-6	-3	0	4	7	10	11	10	7		
3	0																		
1 ST 10	35	50	3	-5	-12	-18	-22	-23	-22	-18	-13	-6	3	12	19	24	24		
18	11																		
1 ST 10	35	60	17	3	-11	-22	-30	-35	-36	-34	-29	-21	-8	7	21	33	41	42	
38	29																		
1 ST 10	35	70	25	11	-4	-16	-27	-34	-38	-38	-35	-28	-17	-2	14	28	39	44	
43	36																		
1 ST 10	35	80	17	12	4	-6	-15	-21	-25	-26	-24	-20	-13	-3	9	19	23	26	
23	21																		
1 ST 10	40	-80	-8	-6	-4	-3	1	0	2	3	6	6	7	5	2	0	-2	-2	
-5	-6																		
1 ST 10	40	-70	-15	-12	-8	-4	-1	2	5	8	11	15	16	15	10	3	-4	-10	-
14	-16																		
1 ST 10	40	-60	-19	-16	-11	-5	0	4	9	13	16	20	21	18	11	2	-7	-14	-
19	-20																		
1 ST 10	40	-50	-17	-14	-10	-5	0	6	10	14	16	17	16	13	8	1	-6	-12	-
16	-17																		
1 ST 10	40	-40	-11	-9	-6	-2	1	5	7	9	10	11	10	7	4	0	-5	-8	-
10	-11																		
1 ST 10	40	-30	-4	-2	-1	1	3	3	4	4	4	4	2	1	0	-2	-3	-4	
-4	-4																		
1 ST 10	40	-20	0	1	2	3	3	2	2	1	0	-1	-1	-1	-1	-1	-1	0	
-1	0																		
1 ST 10	40	-10	0	1	2	2	2	2	1	1	0	-1	-1	-1	-1	-1	-1	-1	
0	0																		
1 ST 10	40	0	0	1	1	2	2	2	2	2	1	0	-1	-1	-1	-1	-1	-1	
-1	0																		
1 ST 10	40	10	0	1	1	2	2	2	2	2	2	1	0	0	0	-1	-2	-2	
-1	0																		
1 ST 10	40	20	-2	-1	0	1	2	2	3	3	3	1	0	0	0	-1	-2	-2	
-2	-2																		
1 ST 10	40	30	-4	-4	-4	-3	-2	0	2	3	4	4	4	4	3	2	0	-1	
-2	-3																		
1 ST 10	40	40	-5	-8	-10	-10	-9	-7	-4	-1	2	5	8	10	11	10	8	5	
1	-2																		
1 ST 10	40	50	-3	-10	-16	-19	-20	-20	-18	-13	-7	0	8	16	22	24	23	18	
12	4																		
1 ST 10	40	60	4	-8	-18	-25	-30	-31	-30	-26	-20	-10	2	16	28	35	38	35	
27	16																		
1 ST 10	40	70	8	-4	-14	-22	-27	-30	-30	-28	-23	-15	-4	9	22	32	37	37	
31	21																		
1 ST 10	40	80	6	0	-6	-12	-15	-17	-17	-15	-13	-9	-3	5	12	17	20	21	
16	13																		
1 ST 10	45	-80	-9	-7	-4	-3	2	2	5	6	8	7	6	6	3	-1	-3	-5	
-6	-8																		
1 ST 10	45	-70	-16	-12	-7	-2	3	7	10	13	14	15	14	11	6	-1	-7	-13	
17	-17																		

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START COL	1	2	3	4	5	6	7	8	9	10									
1 ST 10	45	-60	-20	-16	-10	-3	4	9	14	17	19	21	18	14	6	-3	-11	-17	-
21 -21	45	-50	-16	-13	-8	-1	4	10	14	16	16	16	13	9	3	-3	-9	-15	-
1 ST 10	45	-40	-9	-7	-4	0	4	7	8	9	10	9	7	5	1	-3	-6	-9	-
10 -11	45	-30	-2	-1	0	2	3	3	3	3	3	3	1	1	-1	-2	-3	-4	-
1 ST 10	45	-20	0	1	2	2	2	2	2	2	1	1	0	-1	-2	-2	-2	-1	-
4 -3	45	-10	1	1	2	2	2	2	2	2	2	0	-1	-1	-2	-2	-2	-1	-
1 ST 10	45	0	0	1	1	2	2	2	2	2	2	1	0	-1	-2	-2	-2	-1	-
1 ST 10	45	10	0	1	1	2	2	2	2	2	1	1	0	-1	-1	-1	-1	-1	-
1 ST 10	45	20	-1	-1	0	1	2	2	2	2	2	2	1	-1	0	0	-1	-1	-2
2 -2	45	30	-3	-3	-3	-2	-1	0	1	2	3	3	2	3	2	2	0	-1	-2
1 ST 10	45	40	-4	-6	-7	-7	-6	-5	-2	0	2	4	6	8	8	7	5	2	-
0 -3	45	50	-7	-12	-14	-15	-14	-13	-10	-6	-1	4	10	15	18	18	15	10	-
1 ST 10	45	60	-7	-14	-17	-19	-19	-18	-16	-12	-6	1	9	17	24	26	24	19	-
11 2	45	70	-6	-13	-17	-19	-19	-18	-16	-12	-7	-1	7	16	22	25	25	20	-
13 4	45	80	-2	-7	-11	-13	-12	-11	-8	-5	-2	0	5	10	12	13	13	12	-
1 ST 10	50	-80	-10	-7	-2	-2	3	4	8	8	10	8	6	6	2	-2	-4	-6	-
7 3	50	-70	-16	-12	-6	0	5	10	14	16	16	15	13	9	3	-4	-10	-15	-
1 ST 10	50	-60	-19	-15	-8	-1	6	12	18	20	21	21	16	10	2	-6	-13	-18	-
20 -20	50	-50	-14	-10	-5	2	7	12	15	16	15	13	10	5	-1	-6	-11	-15	-
16 -16	50	-40	-6	-4	-1	3	6	8	9	8	7	6	4	1	-2	-4	-7	-9	-
1 ST 10	50	-30	0	1	2	3	3	3	2	1	1	0	0	-1	-1	-2	-2	-3	-
1 ST 10	50	-20	1	1	1	2	1	2	2	2	1	1	-1	-2	-1	-2	-2	-2	-
1 -1	50	-10	1	1	1	2	2	2	2	2	1	0	0	-1	-2	-2	-2	-2	-
1 ST 10	50	0	0	0	1	1	2	2	2	2	1	0	-1	-1	-2	-2	-2	-2	-
1 ST 10	50	10	0	1	2	2	2	2	2	2	1	0	-1	-1	-2	-2	-2	-2	-
1 -1	50	20	-1	0	0	1	2	2	2	2	2	1	0	-1	-2	-2	-2	-2	-
1 ST 10	50	30	0	0	0	1	2	2	2	2	2	1	0	0	0	-1	-1	-1	-2

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START COL	1	2	3	4	5	6	7	8	9	0								
1 ST	10	50	30	-2	-2	-1	0	1	2	3	3	2	1	1	1	0	0	-1
-2	10	50	-2	-4	-5	-5	-4	-2	-1	1	3	4	5	6	6	4	2	0
1 ST	10	50	-3	-11	-11	-11	-9	-7	-4	-1	3	7	10	12	13	12	9	4
1 ST	10	50	-4	-12	-15	-14	-12	-9	-6	-3	2	6	11	15	18	17	14	8
2	10	50	-5	-13	-16	-15	-14	-11	-8	-5	2	6	10	15	17	17	15	9
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1 ST	10	50	-5	-13	-16	-15	-14	-11	-8	-5	2	6	10	15	17	17	15	9
1 ST	10	50	-5	-13	-16	-15	-14	-11	-8	-5	2	6	10	15	17	17	15	9
1 ST	10	50	-5	-13	-16	-15	-14	-11	-8	-5	2	6	10	15	17	17	15	9
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1 ST	10	50	-5	-13	-16	-15	-14	-11	-8	-5	2	6	10	15	17	17	15	9
1 ST	10	50																

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START COL	1	2	3	4	5	6	7	8	9	0								
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-6																		
1 ST 10	65	50	-6	-2	0	2	5	9	12	12	11	9	5	0	-4	-7	-10	-13
13 -11																		
1 ST 10	65	60	-8	-4	-1	4	8	11	13	14	14	11	7	2	-4	-9	-13	-15
15 -12																		
1 ST 10	65	70	-7	0	6	10	14	16	18	18	16	12	4	-3	-11	-17	-20	-21
18 -13																		
1 ST 10	65	80	-3	-1	1	4	7	7	6	5	5	4	1	-1	-3	-5	-6	-7
-6 -5																		
1 ST 10	70	-80	1	3	4	5	5	5	3	1	0	-1	-2	-3	-4	-5	-5	-4
-2 0																		
1 ST 10	70	-70	3	4	6	6	7	6	3	0	-1	-3	-4	-5	-5	-6	-6	-4
-1 1																		
1 ST 10	70	-60	4	5	7	7	7	5	1	-2	-4	-5	-5	-5	-5	-4	-2	-1
0 2																		
1 ST 10	70	-50	3	5	6	6	6	4	1	-2	-4	-4	-5	-4	-4	-3	-1	0
1 2																		
1 ST 10	70	-40	2	3	3	2	2	1	0	-1	-1	-1	-1	-1	-1	-2	-1	0
0 1																		
1 ST 10	70	-30	2	2	1	0	0	-1	-2	-1	0	1	1	1	0	0	0	0
0 1																		
1 ST 10	70	-20	1	0	-1	-3	-3	-3	-3	-2	-1	1	2	3	3	3	2	2
1 1																		
1 ST 10	70	-10	0	0	-2	-3	-3	-3	-4	-3	-2	0	2	3	4	4	4	3
1 0																		
1 ST 10	70	0	0	-1	-2	-2	-2	-2	-3	-2	-2	0	1	2	3	4	4	3
2 1																		
1 ST 10	70	10	0	-1	-1	-1	-1	-1	-2	-3	-3	-1	0	1	3	4	4	3
2 2																		
1 ST 10	70	20	1	0	0	0	0	0	-1	-2	-2	-2	-1	-1	0	2	2	2
2 2																		
1 ST 10	70	30	2	3	3	4	3	2	0	0	-1	-2	-2	-1	-1	-1	-2	-1
-1 0																		
1 ST 10	70	40	-1	0	2	4	5	6	6	6	5	2	0	-2	-4	-5	-6	-6
-4 -3																		
1 ST 10	70	50	-3	1	3	4	6	9	10	10	8	5	1	-3	-6	-9	-10	-11
10 -6																		
1 ST 10	70	60	-4	0	2	5	8	9	11	11	11	8	3	-1	-7	-10	-12	-13
11 -8																		
1 ST 10	70	70	-3	4	9	12	13	14	15	14	12	8	1	-6	-13	-17	-20	-18
14 -8																		
1 ST 10	70	80	-2	0	4	8	9	7	4	3	2	2	-1	-2	-3	-4	-6	-7
-6 -4																		
1 ST 10	75	-80	3	4	4	4	4	2	1	-1	-2	-2	-2	-2	-2	-3	-3	-1
1 2																		
1 ST 10	75	-70	4	5	5	6	6	4	1	-2	-3	-5	-5	-5	-4	-5	-4	-1
1 3																		
1 ST 10	75	-60	4	5	6	6	6	3	0	-4	-5	-5	-4	-3	-3	-3	-3	-1
2 3																		
1 ST 10	75	-50	2	2	2	2	3	2	0	-3	-3	-2	-1	0	0	-1	0	0
1 2																		

START
COL

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-4	-1									
1 ST	10	80	70	4	8	10	10	9	8	7
-5	-1									
1 ST	10	80	80	-2	1	7	11	10	5	0
-4	-3									
1 ST	10	85	-80	8	9	7	3	-1	-4	-6
4	6									
1 ST	10	85	-70	9	10	10	9	5	3	0
4	7									
1 ST	10	85	-60	7	8	8	7	4	-1	-3
3	4									
1 ST	10	85	-50	0	0	-2	-2	-3	-2	-1
1	1									
1 ST	10	85	-40	-5	-6	-5	-4	-3	-2	1
-4	-5									
1 ST	10	85	-30	-5	-5	-3	-3	-5	-3	-1
-6	-7									
1 ST	10	85	-20	-4	-4	-5	-6	-6	-5	0
-4	-4									
1 ST	10	85	-10	0	2	0	-9	-12	-5	-2
3	0									
1 ST	10	85	0	-2	2	3	-4	-7	-3	-2
10	0									
1 ST	10	85	10	-4	3	7	1	-3	-1	-3
16	1									
1 ST	10	85	20	-2	8	17	16	9	3	-3
4	-3									
1 ST	10	85	30	4	13	22	26	20	8	-2
-3	0									
1 ST	10	85	40	10	6	6	12	15	9	0
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7	9									
1 ST	10	85	60	6	11	16	15	7	-3	-6
0	3									
1 ST	10	85	70	6	9	9	6	2	0	0
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1 ST	10	85	80	-7	-3	9	18	14	0	-8
-4	-5									
1 ST	10	90	-80	11	11	8	3	-3	-7	-9
6	8									
1 ST	10	90	-70	11	12	11	10	5	2	-1
5	9									
1 ST	10	90	-60	8	9	9	7	3	-3	-5
4	4									
1 ST	10	90	-50	-1	-2	-5	-5	-6	-6	-3
1	1									
1 ST	10	90	-40	-8	-9	-8	-6	-4	-3	2
-6	-7									

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START
COL

	1	2	3	4	5	6	7	8	9	0
1 ST 10 90 -30 -8 -8 -5 -4 -6 -3 0 5 8 11 15 11 8 4 -4 -6										
-8 -9										
1 ST 10 90 -20 -5 -6 -7 -7 -5 1 6 11 13 12 9 5 1 -3 -4										
-5 -5										
1 ST 10 90 -10 0 2 0 -11 -14 -6 -3 -1 -2 7 15 11 -2 -5 -1 3										
3 0										
1 ST 10 90 0 -2 3 5 -4 -8 -4 -3 -9 -13 -3 9 9 -3 -6 5 14										
11 0										
1 ST 10 90 10 -3 5 9 2 -4 -2 -5 -15 -23 -13 2 4 -6 -6 10 24										
18 1										
1 ST 10 90 20 -1 11 21 19 11 3 3 -5 -16 -25 -22 -12 -4 -4 -2 5 10										
6 -2										
1 ST 10 90 30 6 16 27 30 23 9 9 10 -1 -6 -4 -5 -12 -15 -12 -10 -8										
-2 2										
1 ST 10 90 40 14 9 9 14 17 10 -1 -6 -4 -5 -12 -15 -12 -10 -8										
1 12										
1 ST 10 90 50 10 7 10 14 12 2 -6 -8 -7 -8 -12 -14 -11 -9 -5 3										
12 14										
1 ST 10 90 60 9 14 19 17 6 -6 -10 -5 -3 -6 -10 -12 -9 -8 -6 -1										
1 ST 10 90 70 10 11 10 5 0 -3 -4 -3 -4 -5 -4 -6 -6 -7 -4 0										
4 6										
1 ST 10 90 80 -7 -2 11 20 14 -1 -10 -10 -4 -4 -4 1 6 5 -1 -3										
4 5										
1 ST 10 90 -80 8 4 -1 -6 -10 -11 -10 -10 -6 -2 1 5 8 11 12										
-3 -5										
1 ST 11 20 -70 8 2 -5 -13 -19 -20 -19 -17 -13 -7 1 6 11 16 19 21										
12 10										
1 ST 11 20 -60 5 -2 -9 -16 -21 -21 -19 -16 -12 -4 3 9 14 19 20 20										
18 14										
1 ST 11 20 -50 2 -3 -8 -13 -16 -16 -14 -10 -6 -1 5 9 12 14 15 14										
16 11										
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11 7										
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3 3										
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491

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-8 -12 60 -28 -30 -29 -24 -17 -7 4 14 22 27 29 28 24 17 7 -2 -	-8	-12	60	-28	-30	-29	-24	-17	-7	4	14	22	27	29	28	24	17	7	-2	-				
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2	2															

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1 ST	11	80	-40	-2	0	0	-3	-4	-3	-1	0	0	3	5	5	3	1	0	1
1 ST	11	80	-30	0	2	0	-3	-2	2	2	0	0	4	6	5	0	-3	-4	-3
1 ST	11	80	-20	1	2	1	0	0	1	0	-2	-4	-2	-1	1	0	0	1	2
1 ST	11	80	-10	2	2	1	1	0	0	-2	-5	-6	-4	-1	2	1	1	2	3
1 ST	11	80	0	2	2	2	2	2	1	-2	-6	-7	-4	0	2	1	1	1	2
1 ST	11	80	10	1	2	3	4	4	2	-2	-6	-7	-4	1	3	1	-1	-1	0
1 ST	11	80	20	-2	2	4	4	4	3	1	-2	-3	2	7	8	3	-3	-7	-8
1 ST	11	80	30	-7	-3	3	6	6	4	3	2	1	1	4	6	5	0	-5	-7
1 ST	11	80	40	-8	-5	0	5	6	7	8	8	7	5	4	4	2	-4	-8	-10
1 ST	11	80	50	-7	0	6	10	13	16	16	15	12	8	5	0	-7	-14	-20	-21
1 ST	11	80	60	-14	-5	5	12	17	20	24	24	19	14	8	1	-8	-18	-25	-27
1 ST	11	80	70	-14	-7	0	6	12	14	15	16	17	15	12	6	-1	-10	-17	-21
1 ST	11	80	80	-7	-4	-1	2	5	6	8	9	9	9	7	3	-2	-6	-9	-9
1 ST	11	85	-80	0	-2	-1	0	0	1	2	2	2	0	-1	0	0	-1	0	1
1 ST	11	85	-80	0	-2	-1	0	0	1	2	2	2	0	-1	0	0	-1	0	1

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START COL	1	2	3	4	5	6	7	8	9	10									
1 ST 7	11	85	-70	-6	-14	-4	2	-2	-1	1	2	4	5	3	2	-1	-6	-2	4
1 ST -2	11	85	-60	6	8	2	-6	-2	5	5	2	-2	-7	-8	-4	-3	-2	2	-3
1 ST 4	11	85	-50	1	3	-3	-4	-2	2	6	5	0	-5	-7	0	-2	-3	1	3
1 ST 2	11	85	-40	-5	1	-1	-8	-11	-6	1	3	-3	4	10	11	3	-2	-1	5
1 ST -2	11	85	-30	7	7	0	-10	-6	4	6	-3	-8	4	13	11	-2	-10	-9	-4
1 ST 4	11	85	-20	2	6	.5	1	0	5	3	-5	-13	-7	-3	4	1	-3	0	4
1 ST 3	11	85	-10	1	4	4	3	4	7	2	-8	-15	-8	0	5	1	-4	-3	1
1 ST 3	11	85	0	2	3	4	5	8	9	1	-11	-16	-8	3	8	1	-6	-5	0
1 ST 3	11	85	10	1	2	3	7	12	11	0	-14	-18	-8	6	10	1	-8	-8	-2
1 ST 2	11	85	20	-5	5	10	10	11	11	6	-5	-8	4	20	23	7	-13	-22	-21
18 ST -13	11	85	30	-19	-7	9	17	13	8	7	6	3	2	9	18	15	-1	-15	-20
1 ST 21	11	85	40	-18	-11	3	11	10	7	10	13	10	4	6	12	10	-3	-15	-18
1 ST 15	11	85	50	-4	8	17	22	22	20	18	13	6	1	1	0	-6	-18	-29	-31
26 ST -16	11	85	60	-10	9	23	29	27	26	26	21	11	2	0	-4	-14	-27	-34	-33
1 ST 29	11	85	70	-8	3	12	19	21	19	13	10	9	9	7	1	-7	-15	-23	-27
1 ST 25	11	85	80	-7	-3	3	6	9	10	9	8	8	10	9	5	-4	-12	-15	-14
1 ST 12	11	90	-80	-1	-3	-2	-1	-1	1	2	2	2	0	-1	1	0	0	1	2
1 ST 3	11	90	-70	-8	-17	-5	2	-3	-2	2	2	6	7	5	3	-1	-7	-3	4
7 ST -1	11	90	-60	6	8	2	-6	-2	6	6	3	-1	-7	-8	-4	-3	-2	2	-3
1 ST -3	11	90	-50	0	3	-4	-5	-2	2	7	7	1	-5	-7	0	-2	-4	0	3
1 ST 4	11	90	-40	-7	1	-1	-8	-11	-6	2	4	-3	5	12	12	4	-2	-2	5
1 ST 2	11	90	-30	7	8	1	-11	-7	5	7	-3	-8	6	15	13	-3	-12	-11	-5
1 ST -3	11	90	-20	2	7	6	1	1	6	4	-5	-15	-8	-4	4	0	-4	-1	5
1 ST 5	11	90	-10	2	5	5	4	5	8	2	-10	-17	-10	-1	5	0	-4	-3	2
1 ST 4	11	90	0	1	4	4	6	10	11	2	-12	-18	-9	3	9	1	-6	-5	0
1 ST 3	11	90	10	-1	1	4	9	14	12	0	-15	-20	-8	8	12	2	-9	-9	-4
1 ST 0	11	90																	

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START COL	1	2	3	4	5	6	7	8	9	10								
1 ST 11	90	20	-8	3	10	12	11	6	-5	-8	7	25	28	10	-12	-25	-25	-
22 -17	90	30	-24	-10	8	17	13	8	7	6	3	3	13	23	20	2	-15	-22
25 -25	90	40	-21	-13	3	12	11	6	10	13	11	5	8	15	14	-1	-15	-20
17 -19	90	50	-2	12	22	27	26	23	19	11	4	-3	-2	-2	-8	-21	-33	-34
1 ST 11	90	60	-6	16	32	37	34	31	29	21	8	-3	-6	-11	-21	-34	-40	-37
28 -16	90	70	-3	10	20	26	27	22	13	7	5	4	1	-5	-13	-20	-26	-29
1 ST 11	90	80	-5	1	6	9	12	12	10	8	6	8	6	3	-6	-14	-18	-16
13 -9	20	-80	-3	-4	-3	-3	-3	-1	1	0	0	1	3	3	1	1	3	3
1 ST 12	20	-70	-5	-6	-4	-4	-3	-1	1	1	1	2	4	4	2	1	4	3
1 -2	20	-60	-5	-6	-4	-4	-3	-2	1	1	1	2	4	4	2	2	4	3
1 ST 12	20	-50	-6	-6	-4	-3	-3	-2	-1	2	4	4	5	5	3	3	4	2
0	20	-40	-1	0	1	1	1	0	-1	0	1	0	0	0	-2	-1	1	1
1 ST 12	20	-30	2	4	4	3	3	1	-3	-1	-1	-1	-2	-2	-2	-1	-1	-1
1 -1	20	-20	0	2	3	4	3	1	-3	1	3	1	-3	-2	-1	-1	-2	-3
1 ST 12	20	-10	-2	-1	2	3	2	1	-1	2	3	1	-1	-1	-1	-1	-1	-2
-3 -2	20	0	-2	-2	0	1	1	1	1	1	2	1	1	0	1	1	0	-1
1 ST 12	20	10	-3	-2	-1	1	1	1	2	4	4	3	2	2	2	1	-3	-4
1 -1	20	20	-6	-3	-1	1	2	3	4	7	8	7	6	4	2	1	-7	-7
-3 -4	20	30	-3	-3	-2	-4	-5	-5	-4	-2	2	5	6	8	7	5	1	1
1 ST 12	20	40	19	15	8	1	-4	-11	-16	-20	-20	-17	-14	-7	-2	4	9	17
1 -1	20	50	43	39	30	19	7	-4	-16	-26	-32	-34	-34	-31	-26	-16	-2	15
31 40	20	60	51	53	47	36	22	7	-7	-19	-30	-37	-41	-43	-42	-35	-21	0
1 ST 12	20	70	41	48	47	39	26	11	-2	-13	-23	-29	-34	-38	-38	-34	-24	-9
21 40	20	80	18	24	26	24	18	10	2	-4	-10	-15	-18	-20	-20	-19	-15	-9
1 ST 12	25	-80	-3	-2	-2	-1	0	0	0	0	1	2	2	2	2	1	1	1
0 9	25	-70	-3	-3	-2	-2	-1	0	0	1	2	3	3	2	2	2	2	1
1 ST 12	25	-60	-3	-3	-2	-2	-1	0	0	1	2	3	3	2	2	2	2	1
-1 -2	25	-50	-3	-3	-2	-2	-1	0	0	1	2	3	3	2	2	2	2	1

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1 ST	12	30	-10	-12	-13	-12	-9	-4	0	4	8	10	10	10	8	6	3		
-1	-6																		
1 ST	12	30	40	-1	-10	-18	-23	-24	-21	-15	-9	-3	3	8	12	16	22	21	
17	9																		
1 ST	12	30	50	26	11	-5	-20	-30	-34	-35	-32	-27	-20	-11	-1	10	22	33	40
42	36																		
1 ST	12	30	60	37	25	8	-8	-20	-31	-38	-41	-40	-33	-24	-13	0	15	30	42
48	46																		
1 ST	12	30	70	37	27	12	-1	-14	-25	-33	-37	-37	-34	-27	-17	-5	9	24	36
43	43																		
1 ST	12	30	80	22	16	8	-1	-5	-12	-16	-18	-20	-20	-17	-13	-5	2	13	19
24	25																		
1 ST	12	35	-80	-2	-2	0	0	7	1	-2	-1	-1	-1	0	1	1	1	0	
0	0																		
1 ST	12	35	-70	-1	-3	-3	-4	-3	-3	-2	-1	0	1	3	3	3	2	2	
1	-1																		
1 ST	12	35	-60	-2	-3	-3	-3	-3	-2	-1	0	1	2	3	3	2	3	2	
0	-1																		
1 ST	12	35	-50	-1	-2	-2	-2	-2	-1	-1	0	1	1	2	2	2	1	1	
-1	-1																		
1 ST	12	35	-40	-1	0	-1	-1	-1	-1	0	-1	0	0	1	0	0	1	1	
0	-1																		
1 ST	12	35	-30	0	0	-1	0	-1	0	0	0	0	0	1	0	0	1	1	
0	0																		
1 ST	12	35	-20	-1	1	0	1	1	1	0	-1	-1	-1	1	-1	0	1	1	
1	0																		
1 ST	12	35	-10	-1	0	0	1	1	1	0	0	-1	-1	0	-1	0	0	1	
0	-1																		
1 ST	12	35	0	-1	0	1	1	1	1	1	1	1	1	0	-1	0	-1	-1	
-1	-1																		
1 ST	12	35	10	-2	-2	-1	-1	1	1	1	2	1	1	1	1	1	0	0	
-1	-2																		
1 ST	12	35	20	-5	-5	-4	-3	0	1	4	4	4	4	4	3	2	1	0	-1
-2	-4																		
1 ST	12	35	30	-12	-14	-14	-11	-5	1	6	10	11	11	10	8	6	5	3	0
-4	-8																		
1 ST	12	35	40	-17	-25	-29													

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1	ST	12	40	-40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	ST	12	40	-30	0	0	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0
1	ST	12	40	-20	-1	-1	-1	-1	0	-1	0	0	-1	-1	0	-1	-1	1	2	1
1	ST	12	40	-10	-1	-1	-1	0	0	0	1	1	1	0	-1	-1	0	0	1	1
1	ST	12	40	0	-1	-1	0	0	0	1	1	1	1	0	0	-1	0	-1	0	0
1	ST	12	40	10	-1	-1	-1	0	1	1	1	1	1	0	0	0	0	-1	-1	-1
1	ST	12	40	20	-3	-3	-2	-1	1	2	3	4	3	2	2	1	0	-1	-1	-1
1	ST	12	40	30	-10	-10	-8	-4	1	6	9	12	12	10	7	4	2	-1	-3	-5
1	ST	12	40	40	-23	-26	-25	-19	-10	1	11	20	24	24	22	18	13	8	2	-4
1	ST	12	40	50	-27	-36	-39	-36	-27	-15	-2	9	18	23	27	30	30	28	22	12
1	ST	12	40	60	-21	-34	-40	-41	-35	-26	-15	-5	4	12	21	29	36	39	38	29
1	ST	12	40	70	-11	-24	-30	-32	-29	-22	-15	-8	-2	3	11	19	27	32	34	28
1	ST	12	40	80	1	-5	-11	-15	-16	-14	-10	-8	-6	-4	0	6	13	17	20	17
1	ST	12	45	-80	2	2	-2	-1	-15	-2	-1	2	1	1	1	2	2	2	2	2
1	ST	12	45	-70	-1	-1	-2	-2	-2	-1	0	-1	0	1	2	2	2	1	1	1
1	ST	12	45	-60	-1	-1	-2	-2	-1	-1	-1	0	1	1	2	2	2	1	1	0
1	ST	12	45	-50	0	-1	-1	-1	-1	0	0	0	0	0	1	1	1	1	1	0
1	ST	12	45	-40	0	-1	-1	-1	-1	0	0	0	-1	0	0	1	0	0	0	0
1	ST	12	45	-30	1	-1	-1	-1	0	0	0	0	-1	0	0	1	0	1	1	0
1	ST	12	45	-20	-1	-1	-1	-1	-1	0	1	1	0	0	0	0	0	0	1	1
1	ST	12	45	-10	-1	-1	-1	-1	-1	1	2	2	0	0	1	0	0	1	1	0
1	ST	12	45	0	0	-1	-1	-1	0	1	1	1	1	1	1	-1	0	0	1	0
1	ST	12	45	10	0	0	0	1	1	1	1	1	1	1	0	-1	-1	-1	-1	-2
1	ST	12	45	20	-1	0	0	1	1	2	2	2	2	1	0	0	-1	-1	-2	-2
1	ST	12	45	30	-7	-5	-2	1	4	8	10	10	9	7	4	1	-2	-5	-7	-8

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START COL	1	2	3	4	5	6	7	8	9	0																																								
1 ST 12 45 40 -18 -16 -12 -6 1 8 14 18 19 18 14 10 4 -1 -7 -12 -	16 -18	1 ST 12 45 50 -27 -30 -27 -20 -10 0 10 17 20 22 22 21 19 14 7 -2 -	12 -21	1 ST 12 45 60 -25 -33 -33 -29 -22 -11 -1 7 12 17 21 25 27 26 21 13	1 ST 12 45 70 -19 -26 -27 -26 -21 -13 -9 -5 10 16 21 25 26 23 16	6 -7	1 ST 12 45 80 -4 -9 -13 -16 -13 -9 -5 -3 0 3 5 9 13 15 12	5 0	1 ST 12 50 -80 1 2 1 1 -10 -1 0 1 0 0 1 1 2 1 1	1 0	1 ST 12 50 -70 -1 -1 -1 -1 -1 0 0 -1 0 1 1 1 0 0 0	1 -1 -1	1 ST 12 50 -60 1 -1 -1 -2 -1 -1 -1 -1 0 1 1 1 1 1 0	1 1	1 ST 12 50 -50 0 -1 -1 -1 -1 0 0 0 0 0 1 1 0 0 0	0 0	1 ST 12 50 -40 1 -1 -1 0 -1 0 0 0 0 1 1 1 0 -1 0	0 1	1 ST 12 50 -30 1 -1 -1 -1 -1 -1 -1 -1 0 1 1 1 1 1 1	1 1	1 ST 12 50 -20 -1 -1 -1 -2 -1 0 1 1 0 0 0 0 1 1 1	1 1	1 ST 12 50 -10 -1 -2 -2 -2 -1 1 2 2 1 1 1 1 -1 0 1 0	0 -1	1 ST 12 50 0 0 -1 -1 -1 1 1 1 1 1 0 -1 -1 0 0 -1	0 -1	1 ST 12 50 10 1 1 1 1 1 1 0 1 2 1 0 -1 -1 -2	-1 0	1 ST 12 50 20 1 1 2 2 2 2 2 2 2 1 1 1 -2 -3 -2	-2 -9	1 ST 12 50 30 -4 -1 1 4 6 8 8 8 7 5 2 0 -4 -7 -9 -9	-13 -	1 ST 12 50 40 -11 -7 -3 1 6 10 13 14 14 12 8 4 0 -5 -10 -13 -	-8 -	1 ST 12 50 50 -22 -22 -17 -10 -2 6 13 16 18 17 16 14 11 6 -1 -8 -	4	1 ST 12 50 60 -22 -27 -25 -20 -13 -4 3 9 13 16 19 20 20 17 12 4	8	1 ST 12 50 70 -20 -24 -24 -21 -16 -9 -3 3 9 14 19 22 22 20 15 8	5	1 ST 12 50 80 -7 -11 -14 -15 -10 -7 -3 1 5 8 12 12 11 11 9 5	1	1 ST 12 55 -80 1 2 3 1 -8 1 0 1 0 -1 -2 -1 -1 1 1 1	-1	1 ST 12 55 -70 -1 1 1 0 0 1 0 -1 -1 1 1 0 -1 -1 -1	1	1 ST 12 55 -60 1 1 -1 0 0 0 -1 -1 -1 0 1 1 1 -1 -1	1	1 ST 12 55 -50 0 0 0 0 0 -1 -1 -1 -1 -1 0 0 1 1 1	1

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1 ST 12	55	-30	0	-1	-1	-1	-1	-1	0	1	1	1	1	0	1				
1 ST 12	55	-20	0	-1	0	-1	-1	1	1	0	-1	0	1	1	0	0			
1 ST 12	55	-10	-1	-1	-1	0	-1	1	1	0	0	0	0	0	-1	-1			
1 ST 12	55	0	0	0	-1	-1	1	1	1	1	0	1	-1	0	-1	-1			
1 ST 12	55	10	2	2	2	1	1	0	-1	-1	-1	-1	-1	-1	-1	-1			
1 ST 12	55	20	2	3	3	3	2	2	1	1	0	-1	-2	-2	-3	-2			
1 ST 12	55	30	0	3	5	7	7	6	5	3	2	-1	-3	-5	-7	-8	-8		
1 ST 12	55	40	-8	-3	1	5	6	10	11	12	10	8	5	2	-2	-7	-11	-13	-
1 ST 12	55	50	-15	-12	-8	-2	3	8	10	13	11	12	11	8	5	2	-4	-10	-
1 ST 12	55	60	-19	-20	-17	-12	-6	1	7	10	13	14	15	15	12	8	3	-2	-
1 ST 12	55	70	-19	-20	-18	-15	-11	-6	0	7	13	18	21	21	18	12	6	-1	-
1 ST 12	55	80	-11	-10	-10	-9	-7	-5	-2	2	8	13	15	14	12	9	4	-3	-
1 ST 12	60	-80	0	0	1	0	-1	-1	-1	-1	0	1	1	1	1	1	1	1	-
1 ST 12	60	-70	-1	0	0	-1	-2	-2	-2	-1	1	1	1	2	2	2	1	1	-
1 ST 12	60	-60	-1	-1	-1	-2	-3	-2	-2	-2	1	1	1	2	2	2	1	1	-
1 ST 12	60	-50	0	0	-1	-2	-2	-2	-2	-2	-1	1	1	2	2	2	1	1	-
1 ST 12	60	-40	1	-1	-1	-1	-2	-3	-3	-2	-1	1	0	1	2	3	1	1	-
1 ST 12	60	-30	0	-1	-1	0	-1	0	-1	1	1	1	1	1	2	1	-1	-1	0
1 ST 12	60	-20	0	-1	0	0	-1	0	0	1	1	0	0	0	1	1	-1	-1	-
1 ST 12	60	-10	-1	0	1	1	1	1	1	2	1	0	0	0	0	-1	-1	-1	-
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1	SU	2	85	-60	73	37	28	-55	-57	-2	-90	-122	-144	-84	-3	28	69	136	97	16
8	91																			
1	SU	2	85	-50	51	15	18	-23	-23	6	-56	-68	-92	-51	-1	0	43	85	58	-10
-5	50																			
1	SU	2	85	-40	-19	-22	-5	40	3	15	-10	30	19	11	27	-32	11	25	-22	-32
12	-29																			
1	SU	2	85	-30	4	1	21	23	78	56	72	23	2	-11	-35	-44	-50	-27	17	-48
47	-37																			
1	SU	2	85	-20	-47	-65	-69	20	46	10	39									

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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1 SU 2	85	80	132	74	1	-87	-166	-228	-278	-295	-228	-97	68	76	12	31	168	290	3
00 217	90	-80	60	38	21	-57	-70	-21	-106	-131	-132	-80	7	36	51	123	90	36	
1 SU 2	24	87	90	-70	89	51	29	-71	-91	-22	-146	-174	-177	-107	7	42	70	164	122
1 SU 2	30	119	90	-60	93	42	34	-52	-68	-10	-127	-149	-159	-90	9	34	71	152	110
1 SU 2	25	102	90	-50	65	18	21	-19	-30	0	-84	-86	-102	-54	9	2	42	95	65
1 SU 2	5	56	90	-40	-18	-26	-7	49	0	16	-19	33	24	13	34	-32	9	25	-28
1 SU 2	10	-31	90	-30	5	8	23	23	87	58	75	19	1	-7	-31	-47	-55	-26	21
1 SU 2	57	-46	90	-20	-55	-72	-75	24	48	10	48	103	134	115	30	-48	-13	-80	-29
1 SU 2	23	-69	90	-10	-268	-32	-36	128	41	80	182	196	209	63	66	-61	-141	-35	-124
1 SU 2	65	-213	90	0	-207	10	-71	-32	-31	35	98	37	103	40	56	15	-86	50	58
1 SU 2	26	-86	90	10	-139	31	-121	-190	-105	-30	1	-128	-17	8	50	77	-43	132	241
1 SU 2	3	26	90	20	-11	-72	-146	-214	-269	-324	-413	-394	-124	276	390	139	-153	-83	248
1 SU 2	25	192	90	30	121	199	183	195	207	138	-25	-143	-108	-20	6	12	13	-5	-153
1 SU 2	74	-69	90	40	-294	-269	-191	-156	-147	-100	36	238	417	453	366	227	103	-11	-87
1 SU 2	94	-252	90	50	-189	-253	-235	-159	-30	140	255	143	-120	-259	-146	70	197	180	160
1 SU 2	16	-28	90	60	9	-80	-108	-128	-167	-144	-37	89	125	32	-47	-10	58	64	49
1 SU 2	22	118	90	70	280	259	149	-13	-144	-266	-418	-521	-427	-175	145	147	-8	-42	115
1 SU 2	33	299	90	80	198	104	2	-122	-223	-299	-364	-396	-319	-145	65	75	-6	23	232
1 SU 2	38	323	20	-80	-37	7	0	-20	0	8	6	32	48	55	-15	33	-5	16	13
1 SU 3	69	-31	20	-70	-53	7	2	-28	-1	9	8	47	69	78	-21	43	-8	21	20
1 SU 3	94	-43	20	-60	-53	3	4	-26	-4	5	8	49	68	77	-19	37	-10	18	22
1 SU 3	87	-40	20	-50	-42	-2	6	-17	-5	0	6	41	53	60	-12	21	-12	11	20
1 SU 3	60	-29	20	-40	-28	-7	7	0	-7	-14	-1	22	34	46	7	6	-14	2	13
1 SU 3	31	-31	20	-30	0	-8	8	-2	-3	23	9	12	3	-13	-10	-17	-21	-11	2
1 SU 3	16	18	20	-20	-14	-14	1	8	28	-16	3	-4	-17	-10	2	-21	-15	-8	-6
1 SU 3	34	12	20	-10	19	21	-1	32	13	40	-6	-38	-6	-7	36	4	-36	-14	-31
2 -38																			

	1	2	3	4	5	6	7	8	9	+									
SU 3	20	0	-11	34	-14	6	63	68	9	-32	-5	-9	-1	29	-40	1	-44	1	-
26 -26																			
SU 3	20	10	-40	47	-27	-21	111	96	24	-27	-4	-11	-39	52	-43	15	-57	-8	-
53 -15																			
SU 3	20	20	-22	-26	12	32	2	-48	-25	-31	9	19	13	15	50	-33	8	-1	-
52 -23																			
SU 3	20	30	22	-36	-14	-2	-30	-14	4	-11	-40	5	54	-12	14	-24	-5	18	-
51 21																			
SU 3	20	40	-18	-49	-59	-63	-46	-12	-4	-19	-28	-22	-7	37	36	59	74	72	-
37 11																			
SU 3	20	50	-75	-77	-76	-69	-40	-9	-4	-4	-3	-10	-1	46	84	113	109	65	-
-1 -49																			
SU 3	20	60	-72	-68	-58	-43	-23	-6	8	19	19	17	23	41	74	86	64	13	-
35 -60																			
SU 3	20	70	0	-1	2	1	-9	-20	-14	8	22	34	33	19	6	-9	-27	-32	-
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SU 3	20	80	-26	-22	-26	-23	-14	0	0	10	12	9	12	22	25	43	25	5	-
22 -22																			
SU 3	25	-80	-40	16	-11	-16	20	19	-2	20	31	35	-42	28	-7	20	24	-23	-
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SU 3	25	-70	-57	20	-14	-21	26	23	-3	30	46	50	-59	34	-12	25	32	-34	-
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55 -4																			
SU 3	25	-40	-22	1	9	5	8	-3	-1	20	27	36	-9	-6	-18	1	8	-9	-
27 -20																			
SU 3	25	-30	5	-3	7	12	3	19	6	8	14	-14	-15	-16	-15	-16	-15	-16	-
SU 14 21																			
SU 3	25	-20	-5	-9	13	11	12	-17	15	-6	-9	-13	9	-27	-18	-17	-14	34	-
31 7																			
SU 3	25	-10	31	20	-4	4	-4	52	-7	-37	-25	4	38	13	-34	-11	-27	19	-
6 -35																			
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SU																			

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69	12																			
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1 SU	3	30	80	-32	-44	-48	-37	-31	-6	-4	10	18	26	34	40	30	46	28	1	-
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1 SU	3	35	-80	-12	-4	-14	-18	-16	-2	-3	7	20	24	20	23	2	2	3	-5	-
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21	4																			
1 SU	3	35	-30	-1	-3	7	-3	9	19	-4	13	7	-1	-24	-4	-8	-6	-17	-10	-
3	24																			
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11	-44																			
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START
COL

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MEMBER: SCIDAT9

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15 -22																			
1 SU 3	45	-50	15	18	7	2	6	24	14	-2	-18	-30	-14	-11	2	6	12	-3	-
15 -13																			
1 SU 3	45	-40	-2	2	15	7	18	17	8	1	-11	-20	-37	-23	-9	5	11	1	
-2 20																			
1 SU 3	45	-30	-2	-3	11	4	8	15	-8	7	3	-7	-27	-1	-3	-1	-7	-6	
1 19																			
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31 3																			
1 SU 3	45	-10	17	10	8	6	11	110	53	36	-11	25	43	3	-59	-52	-65	-48	-
34 -54																			
1 SU 3	45	0	-37	16	-27	-41	8	82	16	-9	-20	0	10	35	-27	2	1	28	-
18 -17																			
1 SU 3	45	10	-92	21	-62	-87	3	52	-23	-55	-27	-25	-22	67	4	55	67	105	
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1 SU 3	45	20	107	34	35	6	24	13	22	-18	-51	-95	-113	-110	-42	-53	35	36	1
02 70																			
1 SU 3	45	30	33	56	76	91	74	66	56	30	-15	-37	-62	-72	-80	-98	-80	-47	
-4 15																			
1 SU 3	45	40	-47	11	48	82	109	124	117	107	87	61	26	-25	-90	-135	-168	-128	-1
00 -78																			
1 SU 3	45	50	-148	-130	-83	-33	42	103	117	124	153	141	117	87	36	-18	-76	-126	-1
54 -150																			
1 SU 3	45	60	-126	-151	-121	-83	-49	-14	30	76	92	81	91	129	137	104	24	-51	-
83 -86																			
1 SU 3	45	70	67	6	-78	-155	-148	-78	-28	-4	2	7	33	50	64	27	51	21	
49 112																			
1 SU 3	45	80	-50	-66	-75	-77	-57	-10	15	43	57	64	75	81	67	41	3	-35	-
48 -28																			
1 SU 3	50	-80	-5	1	-8	-17	-17	-2	-7	0	15	22	20	21	-4	0	0	-4	-
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1 SU 3	50	-70	-10	-17	-18	-23	-30	-1	-5	19	44	64	63	31	-19	-18	-29	-25	-
13 -14																			
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14 -19																			
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12 -11																			
1 SU 3	50	-40	-1	0	14	8	18	15	6	-3	-16	-24	-40	-25	-9	5	14	7	
5 26																			
1 SU 3	50	-30	2	2	16	7	10	18	-5	3	-4	-15	-31	-4	-5	-3	-6	-6	
1 21																			
1 SU 3	50	-20	-2	-8	21	27	34	10	47	21	0	-30	-26	-72	-45	-30	-14	34	
31 2																			
1 SU 3	50	-10	15	6	9	5	18	122	66	36	-12	38	53	-5	-71	-56	-67	-57	-
45 -56																			
1 SU 3	50	0	-40	8	-30	-46	7	84	15	-20	-26	6	15	32	-29	6	10	37	-
13 -12																			
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18 33																			

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10 11																		
1 SU 3	60	-50	49	19	-3	-14	-12	14	-59	-54	-77	-69	-11	-15	23	45	67	91
7 -1																		
1 SU 3	60	-40	27	15	15	3	7	-13	-16	-13	-29	-31	-50	-32	-18	9	22	19
29 56																		
1 SU 3	60	-30	21	22	24	29	16	20	-9	-5	-10	-43	-32	-20	-25	-24	-10	-9
18 38																		
1 SU 3	60	-20	-5	-5	25	36	43	24	58	39	6	-33	-39	-90	-61	-40	-21	30
31 2																		
1 SU 3	60	-10	13	3	19	17	28	110	66	4	6	78	67	-8	-86	-65	-75	-63
55 -58																		
1 SU 3	60	0	-34	3	-31	-42	8	60	-2	-59	-29	29	23	23	-35	16	21	54
1 SU 3	60	10	-84	3	-85	-101	-14	8	-72	-123	-66	-19	-22	54	15	98	118	171
54 63																		
1 SU 3	60	20	122	23	17	8	42	18	2	-54	-68	-97	-124	-131	-50	-39	59	50
23 100																		
1 SU 3	60	30	78	99	104	106	69	55	46	6	-65	-99	-112	-110	-88	-79	-59	-29
26 54																		
1 SU 3	60	40	21	102	130	145	125	97	66	35	-18	-45	-62	-97	-133	-131	-124	-73
27 -13																		
1 SU 3	60	50	-42	-3	59	100	114	135	106	73	75	35	-22	-61	-89	-104	-105	-104
97 -69																		
1 SU 3	60	60	-43	-68	-44	-10	1	9	38	57	59	40	30	44	42	15	-37	-48
51 -35																		
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99 69																		
1 SU 3	60	80	-28	-30	-33	-41	-39	6	52	74	65	44	42	27	-7	-22	-38	-19
22 -22																		
1 SU 3	65	-80	3	4	7	-12	-3	-13	-17	-14	-5	7	10	18	-4	3	18	14
-5 -3																		
1 SU 3	65	-70	-23	-17	-8	-14	1	-2	26	45	23	44	59	35	-29	-24	-25	-41
20 -31																		
1 SU 3	65	-60	48	38	82	26	28	-18	-6	-27	5	-12	-59	-38	-62	-52	2	11
7 25																		
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21 36																		
1 SU 3	65	-20	-11	-5	22	36	44	25	62	46	13	-27	-40	-92	-64	-40	-24	27
31 -2																		
1 SU 3	65	-10	8	1	23	31	25	96	68	-9	26	97	64	-10	-83	-66	-84	-66
56 -63																		
1 SU 3	65	0	-34	2	-31	-35	7	46	-5	-69	-16	46	25	20	-34	18	15	54
2 -1																		
1 SU 3	65	10	-80	2	-90	-100	-17	-8	-82	-128	-58	-4	-15	49	16	102	116	174
60 62																		
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21 90																		

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START
COL

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29 -82																			
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-7 33																			
1 SU 3	75	-30	-10	-2	14	16	18	53	12	27	19	-27	-27	-34	-56	-38	-1	-1	
15 22																			
1 SU 3	75	-20	-22	-18	5	29	50	30	65	66	21	-14	-34	-96	-71	-30	-20	25	
26 -11																			
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64 -69																			
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-2 -12																			
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START

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76	-73																				
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COL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
1	SU	9	75	-10	55	53	-9	-33	-43	-63	19	35	-80	-28	-10	20	29	31	-34	-48																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				

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29 -7																			
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62 84																			
1 SU 9	85	40	-21	31	103	142	127	67	-16	-101	-163	-165	-95	-6	34	32	29	28	
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-2 28																			
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74 150																			
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69 63																			
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86 -3																			
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61 9	1 SU 10	30																		
13 23	1 SU 10	30																		

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37 38																				
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1 SU 10	80	-70	91	168	136	91	64	-123	-143	-62	-45	-42	-141	-21	-32	-20	40	7	-
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1 SU 10	80	-50	87	133	117	72	25	-104	-127	-67	-51	-41	-113	-36	-17	-7	41	11	-
1 SU 10	80	-40	30	47	55	26	-6	-20	-44	-27	-20	-17	-40	-29	-15	-2	30	-12	-
1 SU 10	80	-30	76	68	61	14	-22	-67	-87	-69	-70	-50	-59	-59	-4	30	31	58	-
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1 SU 35	79	85	30	-35	19	120	147	64	-44	-94	-108	-138	-144	-72	29	56	14	11
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1 SU 62	81	90	-40	32	51	45	-26	-64	-66	-78	-43	-22	3	-20	-9	1	32	74
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1 SU 43	84	90	30	-66	-6	111	140	54	-71	-123	-132	-161	-172	-86	59	95	55	53
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1 SU 11	25	60	-57	-86	-94	-85	-71	-40	-18	8	18	21	26	46	73	78	73	62	
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55 61										
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15 10										
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3 3																		
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44 -133																		
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43 167	16																	

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633

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1 SV	2	80	10	-19	28	33	4	-37	-70	-55	27	118	118	7	-103	-82	28	81	33	-
45 -67																				
1 SV	2	80	20	-10	27	56	25	-23	-32	-27	-39	-35	18	62	26	-62	-99	-36	57	
74 18																				
1 SV	2	80	30	4	60	66	32	1	-12	-24	-40	-33	9	31	2	-30	-20	7	6	-
22 -36																				
1 SV	2	80	40	-99	2	63	56	40	53	40	-30	-74	-12	77	68	2	-18	12	10	-
60 -129																				
1 SV	2	80	50	0	19	-9	-49	-56	-12	25	4	-18	10	31	13	1	27	43	19	-
17 -31																				
1 SV	2	80	60	14	-11	-69	-97	-82	-34	20	29	29	32	-7	-41	2	76	88	43	
6																				

1 2 3 4 5 6 7 8 9 0
 PAGE : 544

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START
COL

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PAGE: 547

DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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-3	5																	
1 SV	3	10	0	10	14	-30	-37	8	37	18	-2	-6	-15	-8	4	8	4	-2
-5	0																	5
1 SV	3	20	-1	1	17	-13	-19	8	23	4	-8	1	-19	-11	9	-9	-11	-1
9	14																	
1 SV	3	30	-1	-8	-15	-20	-5	8	14	10	-5	-11	-8	-3	15	5	-7	-1
10	21																	9
1 SV	3	40	-4	-15	-21	-25	-17	-6	6	5	-17	-25	-13	6	29	30	18	9
15	23																	50
1 SV	3	50	-2	-25	-28	-39	-42	-28	-9	-18	-45	-53	-39	2	45	69	64	50
53	45																	1
1 SV	3	60	22	-25	-43	-67	-81	-60	-37	-47	-74	-88	-92	-34	57	119	130	123
15	82																	2
1 SV	3	70	55	-22	-74	-126	-142	-111	-78	-72	-97	-144	-180	-132	17	163	246	280
51	169																	3
1 SV	3	80	80	9	-95	-234	-153	-151	-120	-112	-143	-177	-156	-62	96	175	208	335
21	179																	-
1 SV	3	35	-80	37	24	-5	34	75	-50	36	47	-4	-24	-18	-16	-34	-45	-30
1	20																	-
1 SV	3	35	-70	28	29	6	-8	15	33	25	16	-1	-17	-4	-11	-17	-15	-30
18	6																	-27
1 SV	3	35	-60	17	23	5	0	8	11	-5	-19	-20	-8	13	26	10	-8	-22
-8	6																	2
1 SV	3	35	-50	-1	10	7	5	4	-1	-3	-16	-23	-9	2	8	9	2	-1
4	0																	8
1 SV	3	35	-40	-5	4	5	3	1	-1	-5	-11	-8	-4	0	5	5	-2	3
3	-1																	7
1 SV	3	35	-30	1	-3	4	2	-5	2	-2	-11	-6	8	5	-2	0	-4	7
-3	-5																	13
1 SV	3	35	-20	7	-1	0	2	7	12	-2	-17	-5	13	4	-3	0	-5	7
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1 SV	3	35	-10	6	-7	-3	1	7	19	8	-20	-14	16	10	1	-5	-11	-3
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9	15																	3
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1 SV	3	35	40	-12	-19	-22	-25	-14	1	15	15	-3	-7	0	11	30	25	8
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27	24																	26
1 SV	3	35	60	3	-45	-78	-94	-99	-75	-41	-42	-49	-42	-39	3	81	124	125
98	64																	106
1 SV	3	35	70	46	-32	-109	-153	-165	-137	-94	-81	-86	-107	-122	-64	69	177	239
27	135																	255
1 SV	3	35	80	178	75	-55	-120	-140	-161	-152	-131	-82	-100	-105	-81	-101	9	162
76	243																	285

START
COL

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13 28																			
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16 7																			
1 SV	3	40	-60	15	24	11	5	9	6	-10	-28	-30	-13	15	31	12	-6	-19	-22
-6 6																			
1 SV	3	40	-50	-4	7	6	6	5	-4	-8	-20	-26	-10	5	13	13	5	4	5
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1 -3																			
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-4 -5																			
1 SV	3	40	-20	8	0	1	2	9	12	-4	-19	-7	12	3	-3	1	-5	5	1
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-1 8																			
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9 13																			
1 SV	3	40	30	2	2	-1	-7	3	15	22	15	-1	-6	-7	-6	7	-5	-16	-16
-8 9																			
1 SV	3	40	40	-22	-22	-18	-17	-5	12	26	27	9	6	12	17	26	11	-11	-23
18 -8																			
1 SV	3	40	50	-34	-51	-46	-49	-44	-18	11	16	4	9	24	49	69	52	17	-9
-2 2																			
1 SV	3	40	60	-20	-69	-101	-106	-99	-65	-29	-27	-19	6	18	53	104	113	86	56
62 36																			
1 SV	3	40	70	7	-74	-146	-173	-168	-126	-79	-60	-48	-48	-44	17	125	183	193	183
68 90																			
1 SV	3	40	80	126	12	-123	-164	-152	-149	-134	-94	-16	-8	1	-15	-87	1	139	232
33 198																			
1 SV	3	45	-80	55	31	-11	27	113	-115	-3	21	-15	-38	-36	-7	-12	-26	-	

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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12	15																		
1 SV	3	45	30	3	7	4	-3	7	23	30	17	-7	-12	-8	-6	2	-14	-23	-18
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1 SV	3	45	40	-25	-20	-13	-11	2	22	38	36	14	10	16	17	18	-5	-27	-33
25	-14																		
1 SV	3	45	50	-46	-55	-43	-41	-31	-1	29	34	25	31	43	59	61	28	-16	-38
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1 SV	3	45	60	-44	-84	-105	-100	-85	-42	-1	4	16	46	57	80	105	84	37	5
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1 SV	3	45	70	-42	-108	-157	-165	-150	-100	-48	-19	6	17	23	71	144	158	128	103
02	36																		
1 SV	3	45	80	96	3	-135	-180	-165	-123	-96	-42	49	66	79	33	-79	-33	68	144
69	148																		
1 SV	3	50	-80	63	31	-24	17	133	-125	-21	7	-17	-42	-44	-2	-2	-18	-27	-5
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12	4																		
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1 SV	3	50	-50	-8	7	9	7	3	-8	-13	-24	-27	-8	10	20	18	8	8	7
1	-7																		
1 SV	3	50	-40	-6	8	9	3	0	-4	-7	-12	-9	-5	1	11	9	-1	4	8
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1 SV	3	50	-30	2	1	6	4	-5	0	-1	-9	-7	4	2	0	2	-5	6	13
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1 SV	3	50	-20	11	1	2	7	11	8	-9	-14	8	19	-2	-9	1	-6	-1	-8
20	-1																		
1 SV	3	50	-10	17	-5	-7	2	1	8	-1	-4	21	29	5	-7	-7	-15	-19	-21
-9	11																		
1 SV	3	50	0	8	14	16	-11	-22	7	24	-2	-23	-22	-18	-1	8	2	2	5
7	7																		
1 SV	3	50	10	1	30	36	-22	-41	6	43	-1	-60	-65	-37	3	19	17	18	27
20	3																		
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15	17																		
1 SV	3	50	30	5	11	7	0	11	28	35	17	-12	-18	-10	-6	-3	-21	-27	-18
-7	8																		
1 SV	3	50	40	-24	-16	-8	-6	8	31	47	42	16	9	15	15	9	-19	-39	-38
27	-15																		
1 SV	3	50	50	-51	-54	-36	-31	-17	15	45	48	40	43	50	58	47	3	-42	-56
37	-25																		
1 SV	3	50	60	-63	-92	-100	-87	-64	-15	31	36	47	74	77	86	91	51	-8	-34
-7	-23																		
1 SV	3	50	70	-81	-130	-154	-144	-120	-63	-8	29	61	71	66	92	131	114	61	37
46	-10																		
1 SV	3	50	80	73	6	-123	-169	-157	-88	-52	14	110	123	120	49	-89	-80	-13	62
08	104																		
1 SV	3	55	-80	87	-54	-120	-136	133	-106	8	-1	-20	-20	-11	21	42	36	27	14
34	63																		

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DATASET: CWEJ412.GRAMDD90.DATA
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1 SV	3	60	40	-18	5	14	0	4	24	50	54	22	-1	0	-4	-13	-29	-35	-32
23 -17	3	60	50	-51	-45	-16	-5	10	35	59	69	55	35	28	17	1	-28	-50	-58
1 SV	3	60	50	-51	-45	-16	-5	10	35	59	69	55	35	28	17	1	-28	-50	-58
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1 SV	3	60	60	-69	-83	-68	-38	-2	40	79	75	66	81	61	31	20	-4	-34	-52
52 -51	3	60	70	-71	-106	-104	-75	-41	-10	37	93	133	114	36	-28	-35	-8	27	42
1 SV	3	60	70	-71	-106	-104	-75	-41	-10	37	93	133	114	36	-28	-35	-8	27	42
19 -23	3	60	80	142	57	-3	-41	-71	-91	-37	97	267	198	5	-108	-230	-255	-182	-34
1 SV	3	60	80	142	57	-3	-41	-71	-91	-37	97	267	198	5	-108	-230	-255	-182	-34
08 176	3	65	-80	-15	0	8	0	-16	-20	-1	-5	-31	-30	-6	11	20	23	20	20
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1 SV	3	65	-70	-19	0	12	1	-20	-25	-2	-8	-41	-37	-6	15	28	32	29	29
24 -4	3	65	-60	-17	1	11	1	-17	-22	-3	-10	-36	-29	-3	12	24	28	28	28
1 SV	3	65	-60	-17	1	11	1	-17	-22	-3	-10	-36	-29	-3	12	24	28	28	28
18 -6	3	65	-50	-8	-1	3	-2	-11	-13	-7	-11	-14	1	9	7	12	12	15	12
1 SV	3	65	-50	-8	-1	3	-2	-11	-13	-7	-11	-14	1	9	7	12	12	15	12
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1 SV	3	65	-20	12	8	1	-2	8	16	-1	-4	22	27	2	-11	-12	-20	-9	-10
23 -3	3	65	-10	20	-2	-11	-17	-7	19	11	10	41	54	22	-9	-28	-41	-35	-28
1 SV	3	65	-10	20	-2	-11	-17	-7	19	11	10	41	54	22	-9	-28	-41	-35	-28
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1 SV	3	65	0	4	7	14	-13	-25	4	25	12	-9	-21	-20	-1	1	-10	-7	7
18 14	3	65	10	-8	16	34	-10	-39	-8	36	14	-50	-83	-55	5	25	16	16	37
1 SV	3	65	10	-8	16	34	-10	-39	-8	36	14	-50	-83	-55	5	25	16	16	37
43 12	3	65	20	1	17	30	-6	-23	6	34	7	-40	-44	-28	-1	4	-16	-9	25
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1 SV	3	65	50	-45	-37	-8	3	20	42	61	65	47	24	13	3	-7	-28	-46	-55
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1 SV	3	65	60	-56	-71	-57	-23	19	60	87	69	57	71	47	11	1	-14	-39	-60
57 -45	3	65	70	-37	-72	-80	-53	-11	26	63	94	113	84	2	-61	-66	-36	3	23
1 SV	3	65	70	-37	-72	-80	-53	-11	26	63	94	113	84	2	-61	-66	-36	3	23
14 -5	3	65	80	123	65	49	44	9	-47	-28	94	271	195	-21	-154	-280	-293	-208	-54
1 SV	3	65	80	123	65	49	44	9	-47	-28	94	271	195	-21	-154	-280	-293	-208	-54
86 151	3	70	-80	-10	3	8	3	-12	-18	1	-2	-31	-33	-9	7	20	27	20	17
1 SV	3	70	-80	-10	3	8	3	-12	-18	1	-2	-31	-33	-9	7	20	27	20	17
16 -1	3	70	-70	-15	5	11	4	-17	-24	1	-6	-43	-43	-12	9	26	35	29	24
1 SV	3	70	-70	-15	5	11	4	-17	-24	1	-6	-43	-43	-12	9	26	35	29	24
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DATASET: CWEJ412.GRAM0090.DATA
MEMBER: SCIDAT9

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22 -21																			
1 SV	3	75	50	-34	-22	7	9	19	37	58	63	36	4	-10	-13	-12	-24	-37	-45
25 -10																			
1 SV	3	75	60	-28	-49	-43	-11	32	70	80	48	33	49	22	-14	-16	-20	-37	-54
42 -19																			
1 SV	3	75	70	21	-28	-61	-34	27	74	85	69	48	2	-78	-123	-97	-37	15	39
39 40																			
1 SV	3	75	80	124	79	92	151	153	41	-55	3	204	167	-62	-222	-328	-285	-180	-61
50 128																			
1 SV	3	80	-80	2	13	6	3	-6	-16	5	2	-33	-39	-15	-1	18	29	18	7
8 1																			
1 SV	3	80	-70	1	19	9	4	-7	-20	7	2	-45	-51	-22	-3	22	39	23	10
10 2																			
1 SV	3	80	-60	0	18	8	3	-8	-17	6	-1	-41	-42	-19	-7	18	34	23	13
8 -1																			
1 SV	3	80	-50	3	8	0	-10	-11	-3	8	-2	-12	-5	-2	-9	-1	4	12	14
5 2																			
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DATASET: CWEJ412.GRAMOD90.DATA
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DATASET: CWEJ412.GRAMOD90.DATA
 MEMBER: SCIDAT9

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6 SV	11																		
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DATASET: CWEJ412.GRAMOD90.DATA
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PAGE: 601

DATASET: CWEJ412.GRAMOD90.DATA
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1 SV	8	70	-10	38	1	-35	-39	7	32	-2	-13	-14	3	23	-12	-25	1	22	6
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DATASET : CWFJ412.GRAMOD90.DATA
MEMBER : SCIDAT9

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START

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MEMBER: SCIDAT9

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1	RP	3	83	103	118	124	-1	62	62	62	62	62	62	62	62	62	62	62	7
1	RP	3	45	88	84	76	-1	62	62	62	62	62	62	62	62	62	62	62	7
1	RP	3	94	116	131	137	-1	62	62	62	62	62	62	62	62	62	62	62	7
8	94	116	131	137	-1	62	62	62	62	62	62	62	62	62	62	62	62	62	7
1	RP	3	50	105	100	90	-1	62	62	62	62	62	62	62	62	62	62	62	7
1	RP	3	106	124	136	141	-1	62	62	62	62	62	62	62	62	62	62	62	7
1	RP	3	55	103	99	88	-1	62	62	62	62	62	62	62	62	62	62	62	7
9	114	122	128	132	-1	62	62	62	62	62	62	62	62	62	62	62	62	62	7
1	RP	3	60	109	106	98	-1	62	62	62	62	62	62	62	62	62	62	62	7
7	112	123	131	135	-1	62	62	62	62	62	62	62	62	62	62	62	62	62	7
1	RP	3	65	93	93	91	-1	62	62	62	62	62	62	62	62	62	62	62	7
5	115	123	130	134	-1	62	62	62	62	62	62	62	62	62	62	62	62	62	7
1	RP	3	70	82	81	76	-1	62	62	62	62	62	62	62	62	62	62	62	7
1	RP	3	108	111	121	127	-1	62	62	62	62	62	62	62	62	62	62	62	7
1	RP	3	75	75	74	70	-1	62	62	62	62	62	62	62	62	62	62	62	7
8	106	102	115	122	-1	62	62	62	62	62	62	62	62	62	62	62	62	62	7
1	RP	3	80	60	61	62	-1	62	62	62	62	62	62	62	62	62	62	62	7
6	80	85	97	102	-1	62	62	62	62	62	62	62	62	62	62	62	62	62	7
1	RP	3	85	44	48	54	-1	62	62	62	62	62	62	62	62	62	62	62	7
9	72	69	78	80	-1	62	62	62	62	62	62	62	62	62	62	62	62	62	7
1	RP	3	90	52	54	56	-1	62	62	62	62	62	62	62	62	62	62	62	7
2	73	45	34	23	-1	62	62	62	62	62	62	62	62	62	62	62	62	62	7
1	RP	3	95	92	93	94	-1	62	62	62	62	62	62	62	62	62	62	62	7
7	103	88	83	78	-1	62	62	62	62	62	62	62	62	62	62	62	62	62	7

START
 COL

	1	2	3	4	5	6	7	8	9	0
1	RP	3	100	132	132	132	132	132	132	132
2	132	132	132	132	-1					13
1	RP	3	105	145	145	145	145	145	145	14
5	145	145	145	145	-1					
1	RP	3	110	158	158	158	158	158	158	15
8	158	158	158	158	-1					
1	RP	3	115	170	170	170	170	170	170	17
0	170	170	170	170	-1					
1	RP	3	120	183	183	183	183	183	183	18
3	183	183	183	183	-1					
1	RP	3	140	125	125	125	125	125	125	12
5	125	125	125	125	-1					
1	RP	3	160	90	90	90	90	90	90	9
0	90	90	90	90	-1					
1	RP	3	180	71	71	71	71	71	71	7
1	71	71	71	71	-1					
1	RP	3	200	61	61	61	61	61	61	6
1	61	61	61	61	-1					
1	RP	4	20	186	186	166	136	16	12	9
8	23	24	24	24	-1					
1	RP	4	25	95	94	84	69	26	22	21
0	26	29	31	32	-1					
1	RP	4	30	60	56	44	40	35	28	23
6	34	39	42	44	-1					
1	RP	4	35	73	70	63	54	47	38	30
5	44	51	56	58	-1					
1	RP	4	40	89	85	78	68	59	47	37
5	55	63	69	73	-1					
1	RP	4	45	101	98	93	83	75	61	49
4	67	76	84	87	-1					
1	RP	4	50	117	114	108	98	87	72	59
5	79	88	97	101	-1					
1	RP	4	55	115	113	111	106	103	87	73
4	88	92	99	103	-1					
1	RP	4	60	123	120	117	107	107	95	83
1	95	97	100	102	-1					
1	RP	4	65	86	86	86	85	94	84	72
4	86	86	91	93	-1					
1	RP	4	70	61	62	60	61	79	71	59
4	86	80	85	88	-1					
1	RP	4	75	58	58	56	54	83	78	67
9	89	80	84	87	-1					
1	RP	4	80	57	58	56	53	56	56	58
5	70	73	73	74	-1					
1	RP	4	85	62	61	59	54	55	56	63
3	68	65	59	57	-1					
1	RP	4	90	62	63	64	67	69	74	79
1	80	48	35	22	-1					
1	RP	4	95	97	98	98	99	101	103	106
2	106	90	83	77	-1					
1	RP	4	100	132	132	132	132	132	132	132
2	132	132	132	132	-1					

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START COL	1	2	3	4	5	6	7	8	9	0
1	RP	4	105	145	145	145	145	145	145	14
5	145	145	145	145	-1					
1	RP	4	110	158	158	158	158	158	158	15
8	158	158	158	158	-1					
1	RP	4	115	170	170	170	170	170	170	17
0	170	170	170	170	-1					
1	RP	4	120	183	183	183	183	183	183	18
3	183	183	183	183	-1					
1	RP	4	140	125	125	125	125	125	125	12
5	125	125	125	125	-1					
1	RP	4	160	90	90	90	90	90	90	9
0	90	90	90	90	-1					
1	RP	4	180	71	71	71	71	71	71	7
1	71	71	71	71	-1					
1	RP	4	200	61	61	61	61	61	61	6
1	61	61	61	61	-1					
1	RP	5	20	104	104	111	115	21	13	9
4	16	16	17	17	-1					
1	RP	5	25	80	78	75	66	25	20	19
8	19	20	22	23	-1					
1	RP	5	30	70	67	61	45	38	32	31
3	25	27	29	30	-1					
1	RP	5	35	82	79	74	60	48	42	41
1	35	38	41	42	-1					
1	RP	5	40	94	91	85	71	60	57	57
6	42	49	53	54	-1					
1	RP	5	45	105	102	97	84	72	71	70
3	50	58	64	66	-1					
1	RP	5	50	104	103	105	94	82	78	75
9	59	67	73	77	-1					
1	RP	5	55	119	116	115	100	90	89	79
6	65	73	81	84	-1					
1	RP	5	60	120	117	115	102	95	82	71
2	69	75	79	81	-1					
1	RP	5	65	91	90	88	84	89	73	58
5	62	66	69	69	-1					
1	RP	5	70	72	71	69	67	86	73	60
4	68	68	69	69	-1					
1	RP	5	75	64	64	62	62	89	79	70
4	74	66	67	67	-1					
1	RP	5	80	60	60	57	60	60	58	57
1	60	66	66	66	-1					
1	RP	5	85	62	61	59	60	61	62	66
1	65	63	62	59	-1					
1	RP	5	90	67	69	71	77	82	90	99
6	84	52	39	26	-1					
1	RP	5	95	100	101	102	104	107	111	116
4	108	92	85	79	-1					
1	RP	5	100	132	132	132	132	132	132	132
2	132	132	132	132	-1					
1	RP	5	105	145	145	145	145	145	145	145
5	145	145	145	145	-1					

START
COL

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START COL	1	2	3	4	5	6	7	8	9	0
1	RP	6	115	170	170	170	170	170	170	17
1	O	170	170	170	170	170	170	170	170	17
1	RP	6	120	183	183	183	183	183	183	18
1	RP	6	140	125	125	125	125	125	125	12
1	RP	6	160	90	90	90	90	90	90	9
1	O	90	90	90	90	90	90	90	90	9
1	RP	6	180	71	71	71	71	71	71	7
1	RP	6	200	61	61	61	61	61	61	6
1	RP	7	20	72	72	72	72	72	72	7
1	O	10	9	9	9	9	9	9	9	9
1	RP	7	25	87	84	82	76	38	24	15
1	RP	7	30	90	86	80	62	50	34	21
1	RP	7	35	112	107	98	79	63	42	28
1	RP	7	40	137	131	117	95	78	53	35
1	RP	7	45	164	157	141	115	95	65	41
1	RP	7	50	181	174	158	130	107	74	46
1	RP	7	55	200	189	162	130	114	83	52
1	RP	7	60	174	166	147	123	112	85	58
1	RP	7	65	141	137	131	117	112	87	56
1	RP	7	70	106	105	106	93	99	84	65
1	RP	7	75	85	86	92	86	96	90	79
1	RP	7	80	79	80	84	80	83	77	69
1	RP	7	85	70	71	73	77	84	82	80
1	RP	7	90	58	64	70	85	101	120	138
1	RP	7	95	95	98	101	109	117	126	135
1	RP	7	100	132	132	132	132	132	132	132
1	RP	7	105	145	145	145	145	145	145	145
1	RP	7	110	158	158	158	158	158	158	158
1	RP	7	115	170	170	170	170	170	170	170
1	O	170	170	170	170	170	170	170	170	17

ART COL		1	2	3	4	5	6	7	8	9	0
1	RP	7	183	183	183	183	183	183	183	183	183
3	RP	183	183	183	183	183	183	183	183	183	183
1	RP	7	140	125	125	125	125	125	125	125	125
5	RP	125	125	125	125	125	125	125	125	125	125
1	RP	7	160	90	90	90	90	90	90	90	90
0	RP	90	90	90	90	90	90	90	90	90	90
1	RP	7	180	71	71	71	71	71	71	71	71
1	RP	7	200	61	61	61	61	61	61	61	61
1	RP	61	61	61	61	61	61	61	61	61	61
1	RP	8	20	103	103	126	156	31	17	11	8
2	RP	13	15	17	17	17	17	17	17	17	17
1	RP	8	25	79	78	80	83	35	21	14	13
4	RP	21	27	29	30	30	30	30	30	30	30
1	RP	8	30	77	75	70	55	50	30	18	16
8	RP	26	34	37	39	39	39	39	39	39	39
1	RP	8	35	103	100	92	79	65	40	24	22
4	RP	33	42	46	49	49	49	49	49	49	49
1	RP	8	40	125	121	111	95	78	50	32	28
0	RP	40	50	56	59	59	59	59	59	59	59
1	RP	8	45	143	138	126	107	88	60	39	34
1	RP	48	55	60	63	63	63	63	63	63	63
1	RP	8	50	148	144	134	113	96	70	48	40
6	RP	54	60	65	68	68	68	68	68	68	68
1	RP	8	55	151	145	130	111	98	75	52	44
3	RP	61	68	73	75	75	75	75	75	75	75
1	RP	8	60	147	141	128	108	96	79	60	50
7	RP	63	70	76	79	79	79	79	79	79	79
1	RP	8	65	151	145	135	119	106	86	59	46
3	RP	51	57	68	71	71	71	71	71	71	71
1	RP	8	70	142	135	123	109	101	85	62	48
1	RP	61	62	67	67	67	67	67	67	67	67
1	RP	8	75	123	118	109	101	100	91	75	65
7	RP	63	64	72	72	72	72	72	72	72	72
1	RP	8	80	103	100	91	89	83	78	69	62
2	RP	63	70	79	81	81	81	81	81	81	81
1	RP	8	85	72	75	76	80	79	86	85	84
7	RP	63	68	81	83	83	83	83	83	83	83
1	RP	8	90	34	43	52	75	99	125	151	160
0	RP	70	60	55	51	51	51	51	51	51	51
1	RP	8	95	83	88	92	104	116	129	142	146
6	RP	101	96	94	92	92	92	92	92	92	92
1	RP	8	100	132	132	132	132	132	132	132	132
2	RP	132	132	132	132	132	132	132	132	132	132
1	RP	8	105	145	145	145	145	145	145	145	145
5	RP	145	145	145	145	145	145	145	145	145	145
1	RP	8	110	158	158</						

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START COL	1	2	3	4	5	6	7	8	9	10	11	12
1	RP	8	140	125	125	125	125	125	125	125	125	125
5	125	125	125	125	125	125	125	125	125	125	125	12
1	RP	8	160	90	90	90	90	90	90	90	90	9
0	90	90	90	90	90	90	90	90	90	90	90	7
1	RP	8	180	71	71	71	71	71	71	71	71	7
1	71	71	71	71	71	71	71	71	71	71	71	6
1	RP	8	200	61	61	61	61	61	61	61	61	6
1	61	61	61	61	61	61	61	61	61	61	61	1
1	RP	9	20	162	162	162	194	219	111	108	108	1
6	17	19	20	21	21	21	21	106	56	50	48	1
1	RP	9	25	111	108	112	106	55	64	55	52	1
6	27	39	48	52	52	52	52	72	66	53	47	2
1	RP	9	30	80	78	74	55	64	55	52	53	2
1	33	45	55	59	59	59	59	72	66	53	47	3
1	RP	9	35	94	91	86	72	66	53	47	53	3
3	42	51	58	61	61	61	82	75	61	53	58	4
1	RP	9	40	112	108	99	82	75	61	53	58	4
3	53	61	68	71	71	71	88	70	53	44	42	5
1	RP	9	45	127	121	108	88	70	53	44	42	5
3	64	73	81	84	84	84	97	90	80	72	78	6
1	RP	9	50	133	128	115	97	90	80	72	78	6
0	75	86	97	101	101	101	105	100	87	78	82	7
1	RP	9	55	126	122	114	105	100	87	78	82	7
0	83	93	103	107	107	107	101	103	92	85	83	7
1	RP	9	60	132	127	118	101	103	92	85	83	7
3	85	95	103	107	107	107	107	114	96	80	71	7
1	RP	9	65	127	123	117	107	114	96	80	71	7
8	85	88	91	91	91	91	97	114	98	82	79	6
1	RP	9	70	113	109	105	97	114	98	82	79	6
4	69	71	78	79	79	79	92	92	82	66	66	7
1	RP	9	75	104	101	99	92	92	82	66	66	7
0	69	67	73	74	74	74	85	80	75	66	64	5
1	RP	9	80	85	84	85	85	80	75	66	64	5
5	58	60	64	64	64	64	80	82	85	85	86	5
1	RP	9	85	64	67	71	80	82	85	85	86	5
9	56	51	51	49	49	49	73	102	132	162	162	6
1	RP	9	90	23	34	45	73	102	132	162	162	6
8	62	56	54	52	52	52	103	117	132	147	150	10
1	RP	9	95	78	83	88	103	117	132	147	150	10
0	97	94	93	92	92	92	132	132	132	132	132	13
1	RP	9	100	132	132	132	132	132	132	132	132	13
2	132	132	132	132	132	132	145	145	145	145	145	14
1	RP	9	105	145	145	145	145	145	145	145	145	14
5	145	145	145	145	145	145	158	158	158	158	158	15
1	RP	9	110	158	158	158	158	158	158	158	158	15
8	158	158	158	158	158	158	170	170	170	170	170	17
1	RP	9	115	170	170	170	170	170	170	170	170	17
0	170	170	170	170	170	170	183	183	183	183	183	18
1	RP	9	120	183	183	183	183	183	183	183	183	18
3	183	183	183	183	183	183	125	125	125	125	125	12
1	RP	9	140	125	125	125	125	125	125	125	125	12
5	125	125	125	125	125	125	125	125	125	125	125	12

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START COL	1	2	3	4	5	6	7	8	9	0
1	RP	9	160	90	90	90	90	90	90	90
1	O	90	90	90	90	90	90	90	90	9
1	RP	9	180	71	71	71	71	71	71	71
1	1	71	71	71	71	71	71	71	71	7
1	RP	9	200	61	61	61	61	61	61	61
1	1	61	61	61	61	61	61	61	61	6
1	RP	10	20	299	299	259	198	27	12	8
1	7	21	24	26	27	27	1	8	7	9
1	RP	10	25	124	123	107	83	24	17	16
1	6	32	39	44	46	46	1	18	19	21
1	RP	10	30	73	67	49	34	31	22	19
1	4	42	48	51	52	52	1	20	19	17
1	RP	10	35	87	82	70	53	40	30	26
1	6	53	60	64	66	66	1	27	27	25
1	RP	10	40	99	93	80	63	48	37	31
1	7	68	76	81	84	84	1	31	31	30
1	RP	10	45	112	106	93	75	57	44	36
1	2	83	90	94	96	96	1	34	34	31
1	RP	10	50	124	118	105	86	66	51	41
1	4	97	104	109	112	112	1	37	37	36
1	RP	10	55	127	121	107	88	72	59	48
1	6	111	114	114	116	116	1	40	40	40
1	RP	10	60	142	138	127	107	82	68	55
1	1	113	119	122	124	124	1	41	45	47
1	RP	10	65	132	128	116	98	77	67	57
1	6	90	88	88	88	88	1	46	45	42
1	RP	10	70	144	137	122	102	80	71	61
1	8	69	64	64	63	63	1	55	55	45
1	RP	10	75	139	133	118	98	86	80	71
1	O	67	59	59	58	58	1	71	71	71
1	RP	10	80	119	115	104	90	73	71	66
1	7	55	55	56	55	55	1	76	76	68
1	RP	10	85	87	86	82	81	77	81	84
1	6	54	54	56	57	57	1	86	86	90
1	RP	10	90	22	35	48	80	111	143	174
1	9	67	64	63	62	62	1	153	173	136
1	RP	10	95	77	83	90	106	122	137	153
1	1	99	98	98	97	97	1	132	132	132
1	RP	10	100	132	132	132	132	132	132	132
1	2	132	132	132	132	132	1	132	132	132
1	RP	10	105	145	145	145	145	145	145	145
1	5	145	145	145	145	145	1	145	145	145
1	RP	10	110	158	158	158	158	158	158	158
1	8	158	158	158	158	158	1	158	158	158
1	RP	10	115	170	170	170	170	170	170	170
1	O	170	170	170	170	170	1	170	170	170
1	RP	10	120	183	183	183	183	183	183	183
1	3	183	183	183	183	183	1	183	183	183
1	RP	10	140	125	125	125	125	125	125	125
1	5	125	125	125	125	125	1	125	125	125
1	RP	10	160	90	90	90	90	90	90	90
1	O	90	90	90	90	90	1	90	90	9

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START COL	1	2	3	4	5	6	7	8	9	0
1	RP	10	180	71	71	71	71	71	71	71
1	1	71	71	71	71	71	71	71	71	71
1	RP	10	200	61	61	61	61	61	61	61
1	1	61	61	61	61	61	61	61	61	61
1	RP	11	20	208	208	187	147	18	11	7
1	O	28	31	33	33	-1	63	19	15	13
1	5	39	51	58	62	-1	67	23	18	15
1	7	53	65	72	75	-1	40	32	27	24
1	7	65	79	86	90	-1	47	38	32	28
1	9	77	91	98	101	-1	54	45	38	33
1	3	91	103	106	108	-1	62	51	43	39
1	3	101	113	116	118	-1	68	58	50	44
1	5	112	121	118	119	-1	71	64	57	49
1	6	112	121	120	121	-1	64	67	65	56
1	6	91	93	91	91	-1	70	65	64	64
1	8	78	76	72	70	-1	70	75	77	76
1	8	77	67	64	62	-1	73	67	64	66
1	7	65	62	59	57	-1	77	77	76	81
1	6	65	61	59	58	-1	84	116	146	175
1	2	77	71	69	67	-1	108	124	139	154
1	7	104	102	101	100	-1	132	132	132	132
1	2	132	132	132	132	-1	145	145	145	145
1	5	145	145	145	145	-1	158	158	158	158
1	8	158	158	158	158	-1	170	170	170	170
1	O	170	170	170	170	-1	183	183	183	183
1	3	183	183	183	183	-1	125	125	125	125
1	5	125	125	125	125	-1	90	90	90	90
1	O	90	90	90	90	-1	71	71	71	71
1	1	71	71	71	71	-1	71	71	71	71

START
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DL	1	2	3	4	5	6	7	8	9	+
1	RP	11	200	61	61	61	61	61	61	61
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1	RP	12	20	111	111	102	89	14	11	9
3	3	37	43	45	45	-1	41	15	16	16
1	RP	12	25	49	48	45	41	15	16	13
7	7	49	51	54	54	-1	44	17	18	17
1	RP	12	30	53	52	48	44	17	18	16
0	0	65	68	71	71	-1	27	23	23	22
1	RP	12	35	32	32	30	27	23	23	22
1	1	80	88	94	96	-1	34	29	28	27
1	RP	12	40	39	38	36	34	29	28	27
1	1	92	106	112	114	-1	39	34	31	30
1	RP	12	45	45	44	42	39	34	31	30
3	3	104	120	125	127	-1	42	38	35	33
1	RP	12	50	49	47	46	42	38	35	33
9	9	107	123	125	128	-1	46	44	41	38
1	RP	12	55	51	50	48	46	44	41	38
6	6	117	128	128	129	-1	48	49	46	44
1	RP	12	60	51	50	49	48	49	46	44
5	5	117	130	130	131	-1	47	55	57	59
1	RP	12	65	36	39	42	47	55	57	59
4	4	101	108	110	111	-1	50	62	67	74
1	RP	12	70	41	43	45	50	62	67	74
7	7	92	95	100	103	-1	54	72	79	85
1	RP	12	75	47	49	50	54	72	79	85
5	5	87	82	88	90	-1	61	63	66	71
1	RP	12	80	58	59	57	61	63	66	71
9	9	80	73	79	80	-1	72	73	77	82
1	RP	12	85	75	75	70	72	73	77	82
8	8	78	69	75	76	-1	85	111	133	154
1	RP	12	90	39	50	60	85	111	133	154
7	7	88	79	75	72	-1	109	122	132	143
1	RP	12	95	85	91	96	109	122	132	132
5	5	110	106	104	102	-1	132	132	132	132
1	RP	12	100	132	132	132	132	132	132	132
2	2	132	132	132	132	-1	145	145	145	145
1	RP	12	105	145	145	145	145	145	145	145
5	5	145	145	145	145	-1	158	158	158	158
1	RP	12	110	158	158	158	158	158	158	158
8	8	158	158	158	158	-1	170	170	170	170
1	RP	12	115	170	170	170	170	170	170	170
0	0	170	170	170	170	-1	183	183	183	183
1	RP	12	120	183	183	183	183	183	183	183
3	3	183	183	183	183	-1	125	125	125	125
1	RP	12	140	125	125	125	125	125	125	125
5	5	125	125	125	125	-1	90	90	90	90
1	RP	12	160	90	90	90	90	90	90	90
0	0	90	90	90	90	-1	71	71	71	71
1	RP	12	180	71	71	71	71	71	71	71
1	1	71	71	71</						

DATASET: CWEJ412.GRAMOD90.DATA
 MEMBER: SCIDAT9

[illegible]

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START COL	1	2	3	4	5	6	7	8	9	0							
1 RD	4	35	57	55	49	40	35	29	24	20	18	20	22	24	25	25	2
8 RD	35	38	41	42	-1	52	46	38	32	27	24	26	27	27	28	30	3
1 RD	4	40	69	66	60	52	46	38	32	27	24	26	27	27	28	30	3
5 RD	43	48	53	55	-1	67	61	51	42	35	28	30	32	31	31	35	4
1 RD	4	45	80	78	73	67	61	51	42	35	28	30	32	31	31	35	4
2 RD	53	60	65	67	-1	84	76	61	46	37	29	31	32	31	34	42	5
1 RD	4	50	99	96	91	84	76	61	46	37	29	31	32	31	34	42	5
2 RD	65	74	81	84	-1	94	90	73	60	50	38	36	37	36	40	50	6
1 RD	4	55	108	106	104	94	90	73	60	50	38	36	37	36	40	50	6
2 RD	77	83	91	94	-1	102	101	92	83	62	40	38	38	40	46	58	7
1 RD	4	60	117	114	110	96	101	90	76	62	47	41	38	42	50	58	6
3 RD	88	87	93	97	-1	78	91	77	62	45	31	44	45	46	49	56	6
1 RD	4	65	100	99	99	96	101	90	76	62	47	41	38	42	50	58	6
7 RD	77	74	78	79	-1	70	89	80	68	55	46	61	67	63	59	62	6
1 RD	4	70	77	77	77	67	69	67	64	58	51	68	69	63	60	60	6
3 RD	73	66	70	71	-1	67	69	67	64	58	51	68	69	63	60	60	6
1 RD	4	75	75	73	73	68	68	66	65	61	60	79	75	74	74	71	7
6 RD	75	67	72	74	-1	92	88	88	88	101	113	118	122	140	158	142	12
1 RD	4	80	75	74	71	123	121	121	121	127	134	136	138	147	156	148	14
3 RD	71	74	78	80	-1	154	154	154	154	154	154	154	154	154	154	154	15
1 RD	4	85	81	79	75	135	135	135	135	135	135	135	135	135	135	135	13
2 RD	74	74	74	73	-1	117	117	117	117	117	117	117	117	117	117	117	11
1 RD	4	90	99	97	95	92	88	88	88	88	101	113	118	122	140	158	12
6 RD	104	82	73	64	-1	154	154	154	154	154	154	154	154	154	154	154	15
1 RD	4	95	127	126	125	123	121	121	121	127	134	136	138	147	156	148	14
0 RD	129	118	114	109	-1	135	135	135	135	135	135	135	135	135	135	135	13
1 RD	4	100	154	154	154	154	154	154	154	154	154	154	154	154	154	154	15
4 RD	154	154	154	154	-1	117	117	117	117	117	117	117	117	117	117	117	11
1 RD	4	105	135	135	135	135	135	135	135	135	135	135	135	135	135	135	13
5 RD	135	135	135	135	-1	98	98	98	98	98	98	98	98	98	98	98	9
1 RD	4	110	117	117	117	98	98	98	98	98	98	98	98	98	98	98	9
7 RD	117	117	117	117	-1	79	79	79	79	79	79	79	79	79	79	79	7
1 RD	4	115	98	98	98	79	79	79	79	79	79	79	79	79	79	79	7
8 RD	98	98	98	98	-1	72	72	72	72	72	72	72	72	72	72	72	7
1 RD	4	120	79	79	79	72	72	72	72	72	72	72	72	72	72	72	7
9 RD	79	79	79	79	-1	65	65	65	65	65	65	65	65	65	65	65	6
1 RD	4	140	72	72	72	65	65	65	65	65	65	65	65	65	65	65	6
2 RD	72	72	72	72	-1	58	58	58	58	58	58	58	58	58	58	58	5
1 RD	4	160	65	65	65	58	58	58	58	58	58	58	58	58	58	58	5
5 RD	65	65	65	65	-1	52	52	52	52	52	52	52	52	52	52	52	5
1 RD	4	180	58	58	58	52	52	52	52	52	52	52	52	52	52	52	5
8 RD	58	58	58	58	-1	10	20	18	14	10	6	7	8	10	14	16	1
1 RD	4	200	52	52	52	10	20	18	14	10	6	7	8	10	14	16	1
2 RD	52	52	52	52	-1	24	21	16	14	15	16	17	15	15	15	15	1
1 RD	5	20	10	10	10	24	21	16	14	15	16	17	15	15	15	15	1
7 RD	17	17	15	15	-1	37	28	24	23	21	18	16	13	14	16	17	1
1 RD	5	25	37	35	32	52	41	33	30	24	20	18	17	19	22	24	2
6 RD	18	20	21	21	-1	52	41	33	30	24	20	18	17	19	22	24	2
1 RD	5	30	60	57	52	52	41	33	30	24	20	18	17	19	22	24	2
8 RD	19	21	23	23	-1	52	41	33	30	24	20	18	17	19	22	24	2
1 RD	5	35	70	68	64	52	41	33	30	24	20	18	17	19	22	24	2
5 RD	26	27	28	28	-1	52	41	33	30	24	20	18	17	19	22	24	2

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MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0								
1	RD	5	40	79	77	72	62	53	48	48	38	27	23	21	21	22	25	2
9	33	36	38	38	38	-1												3
1	RD	5	45	91	88	85	75	64	63	64	48	34	37	30	28	26	30	3
4	39	44	48	48	49	-1												4
1	RD	5	50	96	94	95	86	73	72	73	55	37	44	39	33	31	35	4
1	48	54	59	61	-1													4
1	RD	5	55	116	114	113	98	85	81	74	56	39	48	45	40	38	41	4
7	56	65	72	75	-1													5
1	RD	5	60	119	118	118	102	89	80	73	55	40	54	49	46	44	49	5
4	63	68	71	72	-1													5
1	RD	5	65	117	116	114	105	102	81	62	48	37	42	38	46	60	63	5
9	56	55	56	54	-1													4
1	RD	5	70	98	96	94	89	98	80	61	43	29	48	52	51	51	49	4
9	51	53	52	51	-1													5
1	RD	5	75	89	88	85	82	98	83	70	54	43	65	75	69	62	57	5
4	55	52	52	51	-1													5
1	RD	5	80	82	81	77	77	71	65	60	52	44	69	74	67	61	52	5
3	55	61	62	61	-1													6
1	RD	5	85	78	77	74	74	70	66	63	61	59	80	78	77	76	67	6
4	61	64	64	63	-1													12
1	RD	5	90	89	90	90	93	95	99	103	110	116	115	114	136	158	141	12
4	101	78	68	59	-1													13
1	RD	5	95	122	122	122	123	125	127	129	132	135	135	134	145	156	148	13
9	128	116	111	107	-1													15
1	RD	5	100	154	154	154	154	154	154	154	154	154	154	154	154	154	154	15
4	154	154	154	154	-1													13
1	RD	5	105	135	135	135	135	135	135	135	135	135	135	135	135	135	135	13
5	135	135	135	135	-1													11
1	RD	5	110	117	117	117	117	117	117	117	117	117	117	117	117	117	117	11
7	117	117	117	117	-1													9
1	RD	5	115	98	98	98	98	98	98	98	98	98	98	98	98	98	98	9
8	98	98	98	98	-1													7
1	RD	5	120	79	79	79	79	79	79	79	79	79	79	79	79	79	79	7
9	79	79	79	79	-1													7
1	RD	5	140	72	72	72	72	72	72	72	72	72	72	72	72	72	72	7
2	72	72	72	72	-1													6
1	RD	5	160	65	65	65	65	65	65	65	65	65	65	65	65	65	65	6
5	65	65	65	65	-1													5
1	RD	5	180	58	58	58	58	58	58	58	58	58	58	58	58	58	58	5
8	58	58	58	58	-1													5
1	RD	5	200	52	52	52	52	52	52	52	52	52	52	52	52	52	52	5
2	52	52	52	52	-1													1
1	RD	6	20	10	10	10	10	20	17	13	9	6	7	8	9	13	15	1
5	15	14	13	13	-1													1
1	RD	6	25	35	34	30	26	26	20	17	18	19	18	15	16	17	16	1
5	15	16	16	16	-1													1
1	RD	6	30	56	56	52	44	39	25	18	20	21	19	14	15	18	17	1
6	17	17	18	18	-1													1
1	RD	6	35	75	74	69	62	56	37	25	23	24	23	21	20	21	20	1
9	21	24	25	25	-1													2
1	RD	6	40	82	81	76	68	64	46	33	29	27	28	25	24	24	24	2
5	27	31	31	31	32	-1												

START

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MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0							
1 RD	7	50	170	162	143	119	98	67	43	35	34	36	30	31	33	31	3
2	36	41	46	48	-1	138	120	82	48	39	39	41	35	36	39	37	3
1 RD	7	55	214	202	171	137	120	87	55	42	45	52	49	46	44	42	4
9	41	42	46	47	-1	128	123	92	55	36	40	46	40	49	60	56	5
1 RD	7	60	204	192	165	106	110	89	61	42	31	46	50	55	61	57	4
3	45	49	52	53	-1	101	104	91	72	57	45	58	66	68	69	64	5
1 RD	7	65	162	155	143	98	93	80	65	56	46	60	60	62	66	59	5
1	43	40	38	36	-1	91	92	85	76	67	59	70	64	67	73	69	6
1 RD	7	70	132	127	123	111	121	129	137	129	121	109	97	116	135	129	12
9	37	36	37	36	-1	132	138	142	146	142	138	132	126	135	145	141	13
1 RD	7	75	110	109	112	154	154	154	154	154	154	154	154	154	154	154	15
6	46	37	38	37	-1	135	135	135	135	135	135	135	135	135	135	135	13
1 RD	7	80	100	100	105	117	117	117	117	117	117	117	117	117	117	117	11
6	49	43	45	44	-1	98	98	98	98	98	98	98	98	98	98	98	9
1 RD	7	85	83	85	88	79	79	79	79	79	79	79	79	79	79	79	7
6	63	59	65	66	-1	72	72	72	72	72	72	72	72	72	72	72	7
1 RD	7	90	92	96	100	65	65	65	65	65	65	65	65	65	65	65	6
2	110	97	92	87	-1	58	58	58	58	58	58	58	58	58	58	58	5
1 RD	7	95	123	125	127	52	52	52	52	52	52	52	52	52	52	52	5
8	132	126	123	121	-1	14	27	19	13	7	5	5	7	8	11	13	1
1 RD	7	100	154	154	154	29	28	20	16	15	16	18	16	15	16	15	1
4	154	154	154	154	-1	48	40	26	18	16	17	16	15	15	17	16	1
1 RD	7	105	135	135	135	67	53	35	24	22	23	23	23	21	20	18	1
5	135	135	135	135	-1	83	68	44	28	25	26	28	25	25	23	22	2
1 RD	7	110	117	117	117	103	84	54	34	30	32	33	33	33	39	42	3
7	117	117	117	117	-1	116	95	65	44	35	34	37	38	48	57	48	3
1 RD	7	115	98	98	98	9	9	53	58	58	58	58	58	58	58	58	3
8	98	98	98	98	-1	46	46	46	46	46	46	46	46	46	46	46	3
1 RD	7	120	79	79	79	1	1	1	1	1	1	1	1	1	1	1	3
9	79	79	79	79	-1	1	1	1	1	1	1	1	1	1	1	1	3
1 RD	7	140	72	72	72	1	1	1	1	1	1	1	1	1	1	1	3
2	72	72	72	72	-1	1	1	1	1	1	1	1	1	1	1	1	3
1 RD	7	160	65	65	65	1	1	1	1	1	1	1	1	1	1	1	3
5	65	65	65	65	-1	1	1	1	1	1	1	1	1	1	1	1	3
1 RD	7	180	58	58	58	1	1	1	1	1	1	1	1	1	1	1	3
8	58	58	58	58	-1	1	1	1	1	1	1	1	1	1	1	1	3
1 RD	7	200	52	52	52	1	1	1	1	1	1	1	1	1	1	1	3
2	52	52	52	52	-1	1	1	1	1	1	1	1	1	1	1	1	3
1 RD	7	20	14	14	14	1	1	1	1	1	1	1	1	1	1	1	3
5	16	15	15	15	-1	1	1	1	1	1	1	1	1	1	1	1	3
1 RD	7	25	39	38	34	1	1	1	1	1	1	1	1	1	1	1	3
4	15	17	17	17	-1	1	1	1	1	1	1	1	1	1	1	1	3
1 RD	7	30	71	68	61	1	1	1	1	1	1	1	1	1	1	1	3
8	30	31	33	34	-1	1	1	1	1	1	1	1	1	1	1	1	3
1 RD	7	35	89	86	79	1	1	1	1	1	1	1	1	1	1	1	3
5	22	31	33	34	-1	1	1	1	1	1	1	1	1	1	1	1	3
1 RD	7	26	34	37	39	1	1	1	1	1	1	1	1	1	1	1	3
7	26	40	107	103	95	1	1	1	1	1	1	1	1	1	1	1	3
1 RD	7	40	107	103	95	1	1	1	1	1	1	1	1	1	1	1	3
3	32	40	44	46	-1	1	1	1	1	1	1	1	1	1	1	1	3
1 RD	7	45	132	128	118	1	1	1	1	1	1	1	1	1	1	1	3
8	45	44	46	48	-1	1	1	1	1	1	1	1	1	1	1	1	3
1 RD	7	50	151	146	136	1	1	1	1	1	1	1	1	1	1	1	3
5	39	44	46	48	-1	1	1	1	1	1	1	1	1	1	1	1	3
1 RD	7	50	151	146	136	1	1	1	1	1	1	1	1	1	1	1	3
9	46	53	58	60	-1	1	1	1	1	1	1	1	1	1	1	1	3

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START	COL	1	2	3	4	5	6	7	8	9	0							
1	RD	8	55	170	163	147	124	105	73	49	41	40	42	41	53	65	55	4
6	RD	53	59	63	65	-1	117	102	79	57	46	41	45	49	64	78	62	5
0	RD	57	62	69	72	-1	119	105	81	56	45	38	42	43	82	83	62	4
8	RD	46	54	68	71	-1	111	100	81	55	41	33	41	41	50	59	58	5
1	RD	8	70	146	138	126	111	102	87	66	54	44	50	55	64	69	63	6
9	RD	57	56	60	59	-1	110	97	82	64	54	48	57	56	62	67	63	6
4	RD	63	60	65	64	-1	101	95	89	78	68	62	70	62	68	74	71	7
1	RD	8	85	105	104	102	118	130	140	149	137	124	110	95	105	115	114	11
0	RD	72	81	94	96	-1	136	142	147	152	145	139	132	125	130	135	134	13
3	RD	109	105	103	101	-1	154	154	154	154	154	154	154	154	154	154	154	15
1	RD	8	100	154	154	154	135	135	135	135	135	135	135	135	135	135	135	13
4	RD	154	154	154	154	-1	117	117	117	117	117	117	117	117	117	117	117	11
1	RD	8	105	135	135	135	98	98	98	98	98	98	98	98	98	98	98	9
5	RD	135	135	135	135	-1	79	79	79	79	79	79	79	79	79	79	79	7
1	RD	8	110	117	117	117	72	72	72	72	72	72	72	72	72	72	72	7
7	RD	117	117	117	117	-1	65	65	65	65	65	65	65	65	65	65	65	6
1	RD	8	115	98	98	98	58	58	58	58	58	58	58	58	58	58	58	5
8	RD	98	98	98	98	-1	52	52	52	52	52	52	52	52	52	52	52	5
1	RD	8	120	79	79	79	56	111	110	109	109	109	84	8	8	13	16	1
9	RD	79	79	79	79	-1	60	60	52	49	52	55	41	22	17	12	11	1
1	RD	8	140	72	72	72	52	59	52	50	51	53	39	24	17	13	12	1
2	RD	72	72	72	72	-1	65	58	48	44	50	49	37	28	26	24	24	2
1	RD	160	65	65	65	65	78	71	56	47	52	51	39	30	30	30	31	3
5	RD	65	65	65	65	-1	83	66	48	36	33	33	45	36	31	32	37	4
1	RD	8	180	58	58	58	91	87	74	65	69	67	50	38	33	36	42	5
8	RD	58	58	58	58	-1	98	96	83	73	77	75	56	43	37	40	46	5
1	RD	8	200	52	52	52	93	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
2	RD	52	52	52	52	-1	91	87	74	65	69	67	50	38	33	36	42	5
1	RD	9	20	56	56	56	98	96	83	73	77	75	56	43	37	40	46	5
9	RD	19	18	16	16	-1	98	96	83	73	77	75	56	43	37	40	46	5
1	RD	9	25	71	68	62	91	87	74	65	69	67	50	38	33	36	42	5
6	RD	26	37	45	48	-1	91	87	74	65	69	67	50	38	33	36	42	5
1	RD	9	30	76	73	67	91	87	74	65	69	67	50	38	33	36	42	5
6	RD	26	38	46	48	-1	91	87	74	65	69	67	50	38	33	36	42	5
1	RD	9	35	78	78	77	91	87	74	65	69	67	50	38	33	36	42	5
5	RD	33	41	46	48	-1	91	87	74	65	69	67	50	38	33	36	42	5
1	RD	9	40	92	91	90	91	87	74	65	69	67	50	38	33	36	42	5
4	RD	40	46	50	51	-1	91	87	74	65	69	67	50	38	33	36	42	5
1	RD	9	45	108	104	98	91	87	74	65	69	67	50	38	33	36	42	5
3	RD	50	56	59	60	-1	91	87	74	65	69	67	50	38	33	36	42	5
1	RD	9	50	118	114	106	91	87	74	65	69	67	50	38	33	36	42	5
1	RD	61	70	76	79	-1	91	87	74	65	69	67	50	38	33	36	42	5
1	RD	9	55	127	123	115	98	96	83	73	77	75	56	43	37	40	46	5
9	RD	72	79	89	93	-1	98	96	83	73	77	75	56	43	37	40	46	5

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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1	RD	9	60	134	129	117	97	98	90	85	83	80	60	45	42	49	54	6
6	76	79	86	88	-1													
1	RD	9	65	123	119	112	101	109	92	78	70	61	48	46	42	56	66	8
0	88	88	90	90	-1													
1	RD	9	70	103	99	95	88	108	92	78	76	73	57	34	44	54	57	6
7	76	80	87	88	-1													
1	RD	9	75	99	97	95	89	88	74	59	56	53	67	48	58	64	65	7
2	79	82	89	90	-1													
1	RD	9	80	97	95	95	93	86	78	64	59	59	62	50	53	60	61	6
6	74	81	88	90	-1													
1	RD	9	85	86	87	89	92	90	87	79	72	68	74	60	60	63	65	6
8	74	79	84	86	-1													
1	RD	9	90	78	85	93	111	128	142	155	140	125	117	108	103	97	98	9
8	100	102	103	104	-1													
1	RD	9	95	116	120	124	132	141	148	155	147	140	135	131	128	126	126	12
6	127	128	129	129	-1													
1	RD	9	100	154	154	154	154	154	154	154	154	154	154	154	154	154	154	15
4	154	154	154	154	-1													
1	RD	9	105	135	135	135	135	135	135	135	135	135	135	135	135	135	135	13
5	135	135	135	135	-1													
1	RD	9	110	117	117	117	117	117	117	117	117	117	117	117	117	117	117	11
7	117	117	117	117	-1													
1	RD	9	115	98	98	98	98	98	98	98	98	98	98	98	98	98	98	9
8	98	98	98	98	-1													
1	RD	9	120	79	79	79	79	79	79	79	79	79	79	79	79	79	79	7
9	79	79	79	79	-1													
1	RD	9	140	72	72	72	72	72	72	72	72	72	72	72	72	72	72	7
2	72	72	72	72	-1													
1	RD	9	160	65	65	65	65	65	65	65	65	65	65	65	65	65	65	6
5	65	65	65	65	-1													
1	RD	9	180	58	58	58	58	58	58	58	58	58	58	58	58	58	58	5
8	58	58	58	58	-1													
1	RD	9	200	52	52	52	52	52	52	52	52	52	52	52	52	52	52	5
2	52	52	52	52	-1													
1	RD	10	20	12	12	12	12	24	16	13	8	5	5	6	8	14	18	2
0	21	19	17	17	-1													
1	RD	10	25	27	26	23	19	20	15	15	18	21	22	21	22	22	21	2
2	29	36	40	42	-1													
1	RD	10	30	58	53	40	30	25	18	18	18	19	19	19	20	23	24	2
6	32	37	41	42	-1													
1	RD	10	35	74	70	60	46	35	27	24	24	23	21	18	20	24	28	3
3	39	44	48	49	-1													
1	RD	10	40	84	79	68	52	41	31	28	28	29	27	25	27	31	38	4
5	51	57	61	63	-1													
1	RD	10	45	95	90	78	61	47	36	32	32	33	31	30	35	42	51	6
0	66	71	73	75	-1													
1	RD	10	50	111	105	92	73	56	43	34	34	34	32	31	37	47	60	7
3	83	89	91	93	-1													
1	RD	10	55	115	109	96	79	63	50	40	40	40	39	42	49	62	72	8
5	100	104	106	108	-1													
1	RD	10	60	136	130	118	97	72	59	47	42	40	41	44	64	85	90	9
7	109	111	114	117	-1													

START
COL

1	RD	10	65	120	117	106	90	68	59	51	44	39	42	50	63	76	86	9
6	102	101	101	101	101	-1												
1	RD	10	70	132	127	112	93	68	60	52	47	46	44	31	43	58	68	7
9	84	81	80	80	80	-1												
1	RD	10	75	132	126	110	91	72	68	62	63	65	59	43	54	63	71	7
8	81	78	78															
1	RD	10	80	133	128	113	95	76	71	63	66	71	69	49	54	62	67	7
1		73	75	76	76	-1												
1	RD	10	85	117	116	106	95	82	81	78	76	76	80	60	59	61	66	6
9	72	75	78	79	-1													
1	RD	10	90	64	73	82	104	126	142	158	140	122	118	113	101	88	88	8
8	92	95	97	99	-1													
1	RD	10	95	109	114	118	129	140	148	156	147	138	136	134	127	121	121	12
1		123	125	126	127	-1												
1	RD	10	100	154	154	154	154	154	154	154	154	154	154	154	154	154	154	15
4	154	154	154	154	154	-1												
1	RD	10	105	135	135	135	135	135	135	135	135	135	135	135	135	135	135	13
5	135	135	135	135	135	-1												
1	RD	10	110	117	117	117	117	117	117	117	117	117	117	117	117	117	117	11
7	117	117	117	117	117	-1												
1	RD	10	115	98	98	98	98	98	98	98	98	98	98	98	98	98	98	9
8	98	98	98	98	98	-1												
1	RD	10	120	79	79	79	79	79	79	79	79	79	79	79	79	79	79	7
9	79	79	79	79	79	-1												
1	RD	10	140	72	72	72	72	72	72	72	72	72	72	72	72	72	72	7
2	72	72	72	72	72	-1												
1	RD	10	160	65	65	65	65	65	65	65	65	65	65	65	65	65	65	6
5	65	65	65	65	65	-1												
1	RD	10	180	58	58	58	58	58	58	58	58	58	58	58	58	58	58	5
8	58	58	58	58	58	-1												
1	RD	10	200	52	52	52	52	52	52	52	52	52	52	52	52	52	52	5
2	52	52	52	52	52	-1												
1	RD	11	20	11	11	11	11	23	16	11	8	6	5	6	8	15	18	2
2	23	23	22	22	22	-1												
1	RD	11	25	20	19													

DATA SET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0					
1	RD 11 70 55 56 57	56 57	57	56	53	51	52	52	54	49	30	43	60	76	9
3	98 102 97 97 -1	97 97	-1	97	55	56	61	69	75	64	44	56	68	78	8
1	RD 11 75 57 58 57	57 58	57	55	55	56	61	69	75	64	44	56	68	78	8
9	91 92 89 88 -1	89 88	-1	89	64	58	61	66	75	70	47	54	66	73	8
1	RD 11 80 68 69 68	68 69	68	64	74	70	69	73	74	76	58	61	67	71	7
2	82 84 81 80 -1	81 80	-1	81	74	70	69	73	74	76	58	61	67	71	7
1	RD 11 85 74 76 76	76 76	76	74	101	124	141	158	136	114	116	110	103	99	9
8	78 78 76 75 -1	76 75	-1	76	128	139	148	156	145	134	135	132	129	127	12
1	RD 11 90 59 68 78	59 68	78	101	154	154	154	154	154	154	154	154	154	154	15
5	93 90 90 89 -1	90 89	-1	90	135	135	135	135	135	135	135	135	135	135	13
1	RD 11 95 107 111 116	107 111	116	128	135	135	135	135	135	135	135	135	135	135	13
5	123 122 122 122 -1	122 122	-1	122	117	117	117	117	117	117	117	117	117	117	11
1	RD 11 100 154 154 154	154 154	154	135	117	117	117	117	117	117	117	117	117	117	11
4	154 154 154 154 -1	154 154	-1	154	98	98	98	98	98	98	98	98	98	98	9
1	RD 11 105 135 135 135	135 135	135	98	79	79	79	79	79	79	79	79	79	79	7
5	135 135 135 135 -1	135 135	-1	135	72	72	72	72	72	72	72	72	72	72	7
1	RD 11 110 117 117 117	117 117	117	72	65	65	65	65	65	65	65	65	65	65	6
7	117 117 117 117 -1	117 117	-1	117	58	58	58	58	58	58	58	58	58	58	5
1	RD 11 115 98 98 98	98 98	98	58	52	52	52	52	52	52	52	52	52	52	5
8	98 98 98 98 -1	98 98	-1	98	10	20	18	12	9	8	8	10	16	19	2
1	RD 11 120 79 79 79	79 79	79	10	13	15	16	16	15	15	18	19	18	21	2
9	79 79 79 79 -1	79 79	-1	79	14	15	15	16	15	14	19	21	18	27	4
1	RD 11 140 72 72 72	72 72	72	14	21	18	19	20	19	19	23	23	26	39	5
2	72 72 72 72 -1	72 72	-1	72	27	24	24	24	24	25	28	30	35	49	6
1	RD 11 160 65 65 65	65 65	65	27	35	30	29	28	27	29	33	36	44	60	7
5	65 65 65 65 -1	65 65	-1	65	39	33	31	30	30	33	37	39	48	66	8
1	RD 11 180 58 58 58	58 58	58	39	44	44	45	43	35	38	42	42	48	61	10
1	RD 11 180 58 58 58	58 58	58	44	42	45	42	39	35	38	42	45	53	69	11
8	58 58 58 58 -1	58 58	-1	42	39	48	52	57	48	40	44	43	51	66	11
1	RD 11 200 52 52 52	52 52	52	39	48	52	57	48	40	44	43	51	66	91	11
2															

START
COL

	1	2	3	4	5	6	7	8	9	0								
1	RD	12	75	30	33	36	40	52	57	67	70	72	61	43	55	72	85	9
9	RD	105	111	117	119	-1	-1	49	55	63	65	70	67	48	56	72	82	9
3	RD	12	80	39	41	42	47	63	67	74	71	71	75	61	65	77	83	8
8	RD	12	85	64	64	60	61	63	67	74	71	71	75	61	65	77	83	8
5	RD	12	90	70	78	86	106	125	137	149	126	103	111	118	119	119	112	10
0	RD	12	95	112	116	120	130	140	146	152	140	129	132	136	136	137	133	13
4	RD	12	100	154	154	154	154	154	154	154	154	154	154	154	154	154	154	15
1	RD	12	105	135	135	135	135	135	135	135	135	135	135	135	135	135	135	13
7	RD	12	110	117	117	117	117	117	117	117	117	117	117	117	117	117	117	11
8	RD	12	115	98	98	98	98	98	98	98	98	98	98	98	98	98	98	9
9	RD	12	120	79	79	79	79	79	79	79	79	79	79	79	79	79	79	7
2	RD	12	140	72	72	72	72	72	72	72	72	72	72	72	72	72	72	7
5	RD	12	160	65	65	65	65	65	65	65	65	65	65	65	65	65	65	6
8	RD	12	180	58	58	58	58	58	58	58	58	58	58	58	58	58	58	5
2	RD	12	200	52	52	52	52	52	52	52	52	52	52	52	52	52	52	5
2	RT	1	20	19	19	18	19	9	9	6	5	5	5	5	8	11	15	2
7	RT	1	25	14	14	14	13	9	9	9	9	9	12	11	12	14	20	2
4	RT	1	30	16	16	16	14	10	10	11	13	14	16	16	17	20	26	3
9	RT	1	35	14	14	14	14	14	14	15	17	18	19	19	20	23	30	3
8	RT	1	40	16	16	16	15	14	14	14	14	15	16	16	19	25	36	4
6	RT	1	45	16	16	16	14	14	15	16	14	15	16	15	20	25	35	4
9	RT	1	50	13	13	14	16	16	17	17	17	19	20	17	19	22	30	3
3	RT	1	55	10	11	13	16	20	20	20	19	19	19	15	22	27	36	4
4	RT	1	60	9	11	13	17	24	26	28	27	27	26	20	24	31	39	4
1	RT	1	65	15	16	18	20	26	29	30	29	29	28	23	29	37	44	4
6	RT	1	70	13	15	16	19	27	31	33	31	27	29	27	31	36	38	4
1	RT	1	75	18	20	20	24	40	42	40	34	31	35	37	39	42	43	4
4	RT	1	45	48	50	51	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1

START
 COL

1	RT	2	85	46	47	50	46	44	43	46	53	46	48	52	5
3	56	61	65	66	-1	69	62	59	56	69	82	83	83	82	85
1	RT	2	90	82	79	76	69	62	59	56	69	82	83	83	82
8	91	94	95	96	-1	72	68	67	65	72	78	79	79	78	80
1	RT	2	95	78	77	75	72	68	67	65	72	78	79	79	78
2	83	85	85	85	-1	75	75	75	75	75	75	75	75	75	75
1	RT	2	100	75	75	75	75	75	75	75	75	75	75	75	75
5	75	75	75	75	-1	109	109	109	109	109	109	109	109	109	109
1	RT	2	105	109	109	109	109	109	109	109	109	109	109	109	109
9	109	109	109	109	-1	143	143	143	143	143	143	143	143	143	143
1	RT	2	110	143	143	143	143	143	143	143	143	143	143	143	143
3	143	143	143	143	-1	177	177	177	177	177	177	177	177	177	177
1	RT	2	115	177	177	177	177	177	177	177	177	177	177	177	177
7	177	177	177	177	-1	211	211	211	211	211	211	211	211	211	211
1	RT	2	120	211	211	211	211	211	211	211	211	211	211	211	211
1	211	211	211	211	-1	146	146	146	146	146	146	146	146	146	146
1	RT	2	140	146	146	146	146	146	146	146	146	146	146	146	146
6	146	146	146	146	-1	105	105	105	105	105	105	105	105	105	105
1	RT	2	160	105	105	105	105	105	105	105	105	105	105	105	105
5	105	105	105	105	-1	81	81	81	81	81	81	81	81	81	81
1	RT	2	180	81	81	81	81	81	81	81	81	81	81	81	81
1	81	81	81	81	-1	69	69	69	69	69	69	69	69	69	69
1	RT	2	200	69	69	69	69	69	69	69	69	69	69	69	69
9	69	69	69	69	-1	34	11	9	8	7	9	7	6	10	13
1	RT	3	20	41	41	38	11	9	8	7	9	7	6	10	13
7	23	29	37	40	-1	22	13	11	11	11	13	12	13	13	17
1	RT	3	25	26	25	24	22	13	11	11	13	12	13	13	17
3	28	33	35	36	-1	24	15	13	12	12	14	15	14	16	22
1	RT	3	30	28	27	26	24	15	13	12	14	15	14	16	22
9	36	41	45	46	-1	22	19	17	16	16	16	18	19	20	24
1	RT	3	35	28	27	25	22	19	17	16	16	18	19	20	24
0	38	45	49	51	-1	24	20	17	15	15	16	17	18	19	24
1	RT	3	40	32	31	28	24	20	17	15	16	17	18	19	24
0	36	41	43	44	-1	22	19	16	16	16	15	15	16	17	20
1	RT	3	45	28	27	25	22	19	16	16	15	15	16	17	20
8	34	37	38	39	-1	21	20	18	18	17	16	16	17	18	21
1	RT	3	50	24	23	22	21	20	18	18	17	16	16	17	20
7	30	32	33	34	-1	24	23	22	20	19	17	17	18	19	23
1	RT	3	55	22	22	23	24	23	22	20	19	17	18	19	23
2	33	34	34	34	-1	23	25	25	27	26	24	24	21	23	28
1	RT	3	60	20	21	23	23	25	27	26	24	24	21	23	28
3	36	37	41	43	-1	26	29	29	31	31	30	31	27	30	33
1	RT	3	65	24	24	25	26	29	31	31	30	31	27	30	33
7	37	34	37	37	-1	24	30	30	30	30	28	29	29	32	36
1	RT	3	70	26	26	25	24	30	30	30	28	29	29	32	36
8	38	37	39	39	-1	33	43	39	34	32	32	32	37	39	41
1	RT	3	75	39	38	36	33	43	39	34	32	32	37	39	41
8	48	46	47	47	-1	44	40	37	36	38	36	41	34	37	42
1	RT	3	80	52	51	48	44	40	37	36	38	41	34	37	42
0	53	55	56	57	-1	55	48	43	42	46	49	54	45	46	48
1	RT	3	85	66	65	60	55	48	43	42	46	49	54	45	46
5	58	59	60	61	-1	55	48	43	42	46	49	54	45	46	48

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0								
1	RT	3	90	85	83	80	73	67	66	65	82	99	92	85	85	86	85	8
5		84	83	83	83	-1												
1	RT	3	95	80	79	78	74	71	70	70	78	87	83	80	80	80	80	8
0		80	79	79	79	-1												
1	RT	3	100	75	75	75	75	75	75	75	75	75	75	75	75	75	75	7
5		75	75	75	75	-1												
1	RT	3	105	109	109	109	109	109	109	109	109	109	109	109	109	109	109	10
9		109	109	109	109	-1												
1	RT	3	110	143	143	143	143	143	143	143	143	143	143	143	143	143	143	14
3		143	143	143	143	-1												
1	RT	3	115	177	177	177	177	177	177	177	177	177	177	177	177	177	177	17
7		177	177	177	177	-1												
1	RT	3	120	211	211	211	211	211	211	211	211	211	211	211	211	211	211	21
1		211	211	211	211	-1												
1	RT	3	140	146	146	146	146	146	146	146	146	146	146	146	146	146	146	14
6		146	146	146	146	-1												
1	RT	3	160	105	105	105	105	105	105	105	105	105	105	105	105	105	105	10
5		105	105	105	105	-1												
1	RT	3	180	81	81	81	81	81	81	81	81	81	81	81	81	81	81	8
1		81	81	81	81	-1												
1	RT	3	200	69	69	69	69	69	69	69	69	69	69	69	69	69	69	6
9		69	69	69	69	-1												
1	RT	4	20	31	31	32	33	11	9	8	6	8	6	6	8	10	11	1
3		15	15	16	16	-1												
1	RT	4	25	25	24	24	23	15	12	12	12	12	13	11	11	11	12	1
4		16	19	20	21	-1												
1	RT	4	30	20	19	17	19	21	17	15	14	13	13	12	12	14	16	1
9		21	22	23	24	-1												
1	RT	4	35	28	28	27	26	23	19	17	16	14	15	15	15	16	19	2
2		24	25	26	26	-1												
1	RT	4	40	33	32	31	28	26	22	18	16	15	15	13	14	16	20	2
5		28	29	31	32	-1												
1	RT	4	45	37	36	33	30	26	22	19	16	14	14	12	15	16	20	2
4		28	32	34	35	-1												
1	RT	4	50	34	33	32	28	26	24	23	18	15	15	14	15	16	20	2
3		25	28	29	30	-1												
1	RT	4	55	30	29	28	27	29	28	26	20	17	17	14	18	20	23	2
6		24	25	24	24	-1												
1	RT	4	60	32	32	32	30	29	28	28	26	23	23	21	22	23	25	2
6		26	23	24	25	-1												
1	RT	4	65	30	30	31	31	33	31	29	29	26	32	33	32	31	31	2
9		29	26	26	26	-1												
1	RT	4	70	28	28	28	27	34	30	28	28	28	31	32	35	37	36	3
4		31	24	23	22	-1												
1	RT	4	75	29	29	29	29	45	40	35	33	34	38	38	42	48	47	4
6		41	32	31	29	-1												
1	RT	4	80	37	37	36	35	35	35	37	38	38	41	33	37	43	45	4
7		47	46	47	47	-1												
1	RT	4	85	48	48	45	42	41	41	43	46	50	55	43	46	50	54	5
5		56	56	58	58	-1												
1	RT	4	90	91	88	86	81	76	77	77	95	114	103	91	90	90	87	8
3		80	77	75	74	-1												

START
 COL

1	RT	4	95	83	82	80	78	75	76	76	85	95	89	83	83	83	81	7
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1	RT	4	100	75	75	75	75	75	75	75	75	75	75	75	75	75	75	7
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1	RT	4	110	143	143	143	143	143	143	143	143	143	143	143	143	143	143	14
3	RT	4	143	143	143	143	143	143	143	143	143	143	143	143	143	143	143	14
1	RT	4	115	177	177	177	177	177	177	177	177	177	177	177	177	177	177	17
7	RT	4	120	211	211	211	211	211	211	211	211	211	211	211	211	211	211	21
1	RT	4	140	146	146	146	146	146	146	146	146	146	146	146	146	146	146	14
6	RT	4	160	105	105	105	105	105	105	105	105	105	105	105	105	105	105	10
5	RT	4	180	81	81	81	81	81	81	81	81	81	81	81	81	81	81	8
1	RT	4	200	69	69	69	69	69	69	69	69	69	69	69	69	69	69	6
9	RT	5	20	35	35	35	35	35	35	35	35	35	35	35	35	35	35	3
8	RT	5	25	35	35	35	35	35	35	35	35	35	35	35	35	35	35	3
1	RT	5	30	29	28	26	21	22	20	18	16	13	14	13	13	13	13	1
4	RT	5	35	36	35	32	28	24	23	23	19	15	17	17	15	14	14	1
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7	RT	5	45	44	43	41	35	30	27	24	19	16	18	17	17	15	15	1
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1	RT	5	55	31	31	32	31	35	31	25	19	17	22	22	22	19	20	1
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1	RT	5	80	37	37	37	36	36	36	37	39	39	41	32	38	43	42	4
1	RT	5	85	47	47	47	45	43	41	41	48	50	55	43	47	51	51	5
1	RT	5	90	101	98	95	88	82	80	78	94	110	104	97	93	88	83	7
7	RT	5	95	88	87	85	82	78	78	77	85	93	89	86	84	82	79	7
1	RT	5	74	73	72	71	82	78	78	77	85	93	89	86	84	82	79	7

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DATASET: CWFJ412.GRAMDD90.DATA
MEMBER: SCIDAT9

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1	RT	5	105	109	109	109	109	109	109	10
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3	143	143	143	143	143	143	143	143	143	14
1	RT	5	115	177	177	177	177	177	177	17
7	177	177	177	177	177	177	177	177	177	17
1	RT	5	120	211	211	211	211	211	211	21
1	211	211	211	211	211	211	211	211	211	21
1	RT	5	140	146	146	146	146	146	146	14
6	146	146	146	146	146	146	146	146	146	14
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8	7	6	6	6	6	6	6	6	6	8
1	RT	6	25	37	36	34	30	21	16	13
9	10	9	9	9	9	9	9	9	9	9
1	RT	6	30	33	31	29	25	25	22	18
1	12	13	13	13	13	13	13	13	13	13
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1	RT	6	40	46	45	43	39	35	31	25
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1	RT	6	45	46	45	45	42	40	34	26
6	16	17	18	18	18	18	18	18	18	18
1	RT	6	50	45	43	41	38	38	32	25
8	15	15	14	14	14	14	14	14	14	14
1	RT	6	55	38	38	37	34	37	31	26
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1	RT	6	70	30	30	30	30	34	34	35
0	25	15	13	11	11	11	11	11	11	11
1	RT	6	75	32	32	33	33	36	37	38
2	35	19	15	12	12	12	12	12	12	12
1	RT	6	80	39	40	41	40	39	39	40
6	33	28	24	21	21	21	21	21	21	21
1	RT	6	85	51	51	52	49	45	44	44
4	42	38	36	34	34	34	34	34	34	34
1	RT	6	90	112	108	104	95	87	82	77
1	72	73	73	74	74	74	74	74	74	74
1	RT	6	95	93	92	90	85	81	78	76
3	73	74	74	75	75	75	75	75	75	75
1	RT	6	100	75	75	75	75	75	75	75
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[illegible]

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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7	177	177	177	177	-1					
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1	211	211	211	211	-1					
1	RT	7	140	146	146	146	146	146	146	14
6	146	146	146	146	146	-1				
1	RT	7	160	105	105	105	105	105	105	10
5	105	105	105	105	-1					
1	RT	7	180	81	81	81	81	81	81	8
1	81	81	81	81	-1					
1	RT	7	200	69	69	69	69	69	69	6
9	69	69	69	69	69	-1				
1	RT	8	20	46	46	45	47	18	11	7
9	8	7	7	7	-1					
1	RT	8	25	52	51	46	41	27	18	11
0	14	18	19	20	-1					
1	RT	8	30	54	52	48	37	34	24	17
2	16	20	22	23	-1					
1	RT	8	35	57	55	51	43	35	28	22
5	19	24	27	28	-1					
1	RT	8	40	56	54	51	43	36	30	24
5	18	22	25	26	-1					
1	RT	8	45	57	54	50	42	35	28	22
6	17	19	20	20	-1					
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8	16	16	16	16	-1					
1	RT	8	55	83	80	74	59	42	34	25
2	19	17	16	16	-1					
1	RT	8	60	100	95	86	66	45	35	28
3	22	18	16	15	-1					
1	RT	8	65	36	37	38	39	41	39	37
6	24	20	19	18	-1					
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9	24	23	24	25	-1					
1	RT	8	75	53	52	51	47	46	41	38
2	37	28	29	29	-1					
1	RT	8	80	59	58	59	56	50	45	41
8	38	37	36	35	-1					
1	RT	8	85	60	60	61	59	54	49	47
6	50	52	52	51	-1					
1	RT	8	90	96	95	94	91	88	85	82
2	69	76	79	82	-1					
1	RT	8	95	85	85	85	83	82	80	78
8	72	75	77	78	-1					
1	RT	8	100	75	75	75	75	75	75	75
5	75	75	75	75	-1					
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9	109	109	109	109	-1					
1	RT	8	110	143	143	143	143	143	143	143
3	143	143	143	143	-1					

START
COL

1	2	3	4	5	6	7	8	9	0																																										
1 RT 8 115 177 177 177 177 177 177 177 177	7 177 177 177 177 177 177 177 177 177	1 RT 8 120 211 211 211 211 211 211 211 211	1 211 211 211 211 211 211 211 211 211	1 RT 8 140 146 146 146 146 146 146 146 146	6 146 146 146 146 146 146 146 146 146	1 RT 8 160 105 105 105 105 105 105 105 105	5 105 105 105 105 105 105 105 105 105	1 RT 8 180 81 81 81 81 81 81 81 81	1 81 81 81 81 81 81 81 81 81	1 RT 8 200 69 69 69 69 69 69 69 69	9 69 69 69 69 69 69 69 69 69	1 RT 9 20 47 47 47 47 47 47 47 47	0 10 10 10 10 10 10 10 10 10	1 RT 9 25 42 41 41 41 41 41 41 41	2 14 15 16 17 17 17 17 17 17	1 RT 9 30 44 42 42 42 42 42 42 42	4 17 18 20 21 21 21 21 21 21	1 RT 9 35 45 43 39 39 39 39 39 39	8 21 23 25 26 26 26 26 26 26	1 RT 9 40 41 40 38 38 38 38 38 38	9 23 27 30 31 31 31 31 31 31	1 RT 9 45 38 37 37 37 37 37 37 37	9 22 25 27 28 28 28 28 28 28	1 RT 9 50 38 37 36 36 36 36 36 36	0 21 22 24 24 24 24 24 24 24	1 RT 9 55 31 31 30 30 30 30 30 30	5 23 24 22 22 22 22 22 22 22	1 RT 9 60 40 39 37 37 37 37 37 37	4 26 22 20 20 20 20 20 20 20	1 RT 9 65 33 33 32 32 32 32 32 32	8 29 25 24 23 23 23 23 23 23	1 RT 9 70 33 34 34 34 34 34 34 34	2 28 24 25 25 25 25 25 25 25	1 RT 9 75 42 42 43 43 43 43 43 43	3 40 34 35 35 35 35 35 35 35	1 RT 9 80 50 51 52 52 52 52 52 52	7 41 45 46 46 46 46 46 46 46	1 RT 9 85 53 54 56 56 56 56 56 56	4 50 56 58 59 59 59 59 59 59	1 RT 9 90 83 83 83 83 83 83 83 83	7 73 80 83 85 85 85 85 85 85	1 RT 9 95 79 79 79 79 79 79 79 79	1 74 78 79 80 80 80 80 80 80	1 RT 9 100 75 75 75 75 75 75 75 75	5 75 75 75 75 75 75 75 75 75	1 RT 9 105 109 109 109 109 109 109 109	9 109 109 109 109 109 109 109 109	1 RT 9 110 143 143 143 143 143 143 143	3 143 143 143 143 143 143 143 143	1 RT 9 115 177 177 177 177 177 177 177	7 177 177 177 177 177 177 177 177

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DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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1	6	146	146	146	146	146	146	146	146	14
1	RT	9	160	105	105	105	105	105	105	10
1	5	105	105	105	105	105	105	105	105	10
1	RT	9	180	81	81	81	81	81	81	8
1	1	81	81	81	81	81	81	81	81	8
1	RT	9	200	69	69	69	69	69	69	6
1	9	69	69	69	69	69	69	69	69	6
1	RT	10	20	32	32	32	32	32	32	1
1	1	12	13	14	15	16	17	18	19	1
1	RT	10	25	26	26	26	26	26	26	2
1	4	16	18	19	20	21	22	23	24	2
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1	RT	10	70	23	24	24	24	24	24	2
1	0	29	27	27	27	27	27	27	27	2
1	RT	10	75	33	34	34	34	34	34	2
1	7	35	29	29	29	29	29	29	29	2
1	RT	10	80	54	53	53	53	53	53	2
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1	7	177	177	177	177	177	177	177	177	2
1	RT	10	120	211	211	211	211	211	211	2
1	1	211	211	211	211	211	211	211	211	2

DATASET: CWEJ412.GRAM090.DATA
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SCIDAT9

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1	81	81	81	81	81	81	81	81	81	8
1	RT	10	200	69	69	69	69	69	69	69
9	69	69	69	69	69	69	69	69	69	6
1	RT	11	20	36	36	36	36	36	36	36
4	19	20	21	21	21	21	21	21	21	21
1	RT	11	25	24	24	24	24	24	24	24
8	23	27	29	30	30	30	30	30	30	30
1	RT	11	30	28	28	28	28	28	28	28
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1	RT	11	55	21	20	20	20	20	20	20
2	34	33	33	32	32	32	32	32	32	32
1	RT	11	60	16	17	18	19	23	22	22
6	38	36	35	34	34	34	34	34	34	34
1	RT	11	65	16	17	17	18	26	30	30
3	47	48	47	47	47	47	47	47	47	47
1	RT	11	70	13	14	16	19	31	34	37
1	32	31	29	29	29	29	29	29	29	29
1	RT	11	75	14	17	19	25	45	49	50
6	35	30	29	28	28	28	28	28	28	28
1	RT	11	80	31	33	34	38	41	41	42
9	38	37	37	36	36	36	36	36	36	36
1	RT	11	85	46	47	48	50	51	50	50
5	46	47	48	49	49	49	49	49	49	49
1	RT	11	90	67	68	70	73	77	83	88
2	88	95	98	101	101	101	101	101	101	101
1	RT	11	95	71	72	73	74	76	79	82
8	82	85	87	88	88	88	88	88	88	88
1	RT	11	100	75	75	75	75	75	75	75
5	75	75	75	75	75	75	75	75	75	75
1	RT	11	105	109	109	109	109	109	109	109
9	109	109	109	109	109	109	109	109	109	109
1	RT	11	110	143	143	143	143	143	143	143
3	143	143	143	143	143	143	143	143	143	143
1	RT	11	115	177	177	177	177	177	177	177
7	177	177	177	177	177	177	177	177	177	177
1	RT	11	120	211	211	211	211	211	211	211
1	211	211	211	211	211	211	211	211	211	211
1	RT	11	140	146	146	146	146	146	146	146
6	146	146	146	146	146	146	146	146	146	146

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DATASET: CWFJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

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1	RT	11	180	81	81	81	81	81	81	81
8	81	81	81	81	81	81	81	81	81	8
1	RT	11	200	69	69	69	69	69	69	69
6	69	69	69	69	69	69	69	69	69	6
1	RT	12	20	26	26	23	21	9	7	5
2	26	26	26	26	26	23	21	9	7	5
1	RT	12	25	16	16	15	14	9	8	9
2	16	16	16	16	16	15	14	9	8	9
1	RT	12	30	32	32	32	16	11	11	11
2	32	32	32	32	32	32	16	11	11	11
1	RT	12	35	34	33	33	16	14	13	14
3	34	33	33	33	33	33	16	14	13	14
1	RT	12	40	42	42	42	15	14	13	13
3	42	42	42	42	42	42	15	14	13	13
1	RT	12	45	46	46	46	18	17	16	15
4	46	46	46	46	46	46	18	17	16	15
1	RT	12	50	41	42	43	15	17	16	16
3	41	42	43	43	43	43	15	17	16	16
1	RT	12	55	41	40	40	17	20	19	17
4	41	40	40	40	40	40	17	20	19	17
1	RT	12	60	44	44	43	17	24	23	23
4	44	44	44	44	44	43	17	24	23	23
1	RT	12	65	44	43	44	21	26	26	27
3	44	43	44	44	44	44	21	26	26	27
1	RT	12	70	37	36	36	18	29	34	36
3	37	36	36	36	36	36	18	29	34	36
1	RT	12	75	38	37	37	24	43	46	46
4	38	37	37	37	37	37	24	43	46	46
1	RT	12	80	44	44	45	32	36	40	44
4	44	44	45	45	45	45	32	36	40	44
1	RT	12	85	55	57	58	42	44	47	50
5	55	57	58	58	58	58	42	44	47	50
1	RT	12	90	104	108	112	72	71	73	74
7	104	108	112	112	112	112	72	71	73	74
1	RT	12	95	90	92	93	73	73	74	75
1	RT	12	100	75	75	75	75	75	75	75
5	75	75	75	75	75	75	75	75	75	75
1	RT	12	105	109	109	109	109	109	109	109
9	109	109	109	109	109	109	109	109	109	109
1	RT	12	110	143	143	143	143	143	143	143
3	143	143	143	143	143	143	143	143	143	143
1	RT	12	115	177	177	177	177	177	177	177
7	177	177	177	177	177	177	177	177	177	177
1	RT	12	120	211	211	211	211	211	211	211
1	RT	12	125	211	211	211	211	211	211	211
1	RT	12	130	146	146	146	146	146	146	146
6	146	146	146	146	146	146	146	146	146	146
1	RT	12	135	105	105	105	105	105	105	105
5	105	105	105	105	105	105	105	105	105	105

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START COL	1	2	3	4	5	6	7	8	9	0
1	RU	1	120	520	520	520	520	520	520	62
0	570	520	520	520	520	520	520	520	520	62
1	RU	1	140	690	690	690	690	690	690	69
0	690	690	690	690	690	690	690	690	690	69
1	RU	1	160	870	870	870	870	870	870	87
0	870	870	870	870	870	870	870	870	870	87
1	RU	1	180	870	870	870	870	870	870	87
0	870	870	870	870	870	870	870	870	870	87
1	RU	1	200	870	870	870	870	870	870	87
0	870	870	870	870	870	870	870	870	870	87
1	RU	2	0	50	50	50	50	50	50	6
0	60	60	60	60	60	60	60	60	60	6
1	RU	2	5	90	90	90	90	90	90	12
0	115	110	105	100	100	100	100	100	100	12
1	RU	2	10	110	115	120	125	130	130	15
0	135	120	115	110	110	110	110	110	110	15
1	RU	2	15	60	65	70	85	100	100	10
0	105	110	110	110	110	110	110	110	110	10
1	RU	2	20	51	53	55	59	62	62	10
7	119	123	123	125	125	125	125	125	125	13
1	RU	2	25	46	45	42	40	39	39	13
9	152	153	154	156	156	156	156	156	156	17
1	RU	2	30	55	55	51	48	46	46	17
7	190	189	188	189	189	189	189	189	189	22
1	RU	2	35	62	60	57	56	56	56	22
6	226	218	212	209	209	209	209	209	209	28
1	RU	2	40	75	74	72	72	71	71	28
8	275	258	246	241	241	241	241	241	241	33
1	RU	2	45	78	79	79	84	88	88	33
1	318	303	293	289	289	289	289	289	289	35
1	RU	2	50	81	83	87	95	100	100	35
8	346	335	328	323	323	323	323	323	323	35
1	RU	2	55	93	97	105	116	122	122	35
5	357	364	363	362	362	362	362	362	362	32
1	RU	2	60	99	106	124	152	166	166	32
1	318	325	325	324	324	324	324	324	324	33
1	RU	2	65	103	112	131	161	179	179	33
3	314	307	306	303	303	303	303	303	303	35
1	RU	2	70	147	151	161	185	203	203	35
8	328	319	318	310	310	310	310	310	310	36
1	RU	2	75	228	234	243	264	296	296	36
8	373	393	402	406	406	406	406	406	406	37
1	RU	2	80	295	298	304	316	342	342	37
7	402	443	455	466	466	466	466	466	466	39
1	RU	2	85	337	341	346	387	439	439	39
6	411	438	444	452	452	452	452	452	452	62
1	RU	2	90	500	500	500	500	500	500	62
0	585	550	560	570	570	570	570	570	570	59
1	RU	2	95	515	515	515	515	515	515	59
5	568	540	545	550	550	550	550	550	550	57
1	RU	2	100	530	530	530	530	530	530	57
0	550	530	530	530	530	530	530	530	530	57

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COL

1	RU	2	105	528	528	528	588	648	748	848	911	975	786	598	535	473	515	55
8	RU	543	528	528	528	-1	565	605	715	825	888	950	758	565	535	505	525	54
5	RU	535	525	525	525	-1	543	563	683	803	864	925	729	533	535	538	535	53
3	RU	528	523	523	523	-1	520	520	650	780	840	900	700	500	535	570	545	52
1	RU	2	120	520	520	520	690	690	690	690	690	690	690	690	690	690	690	69
1	RU	2	140	690	690	690	870	870	870	870	870	870	870	870	870	870	870	87
0	RU	2	160	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
1	RU	2	180	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
0	RU	2	200	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
1	RU	2	200	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
0	RU	3	0	60	60	60	55	50	45	40	30	20	20	20	35	50	55	6
0	RU	55	50	50	50	-1	95	100	80	60	50	40	50	60	75	90	100	11
1	RU	3	5	90	90	90	135	150	125	100	75	50	65	80	115	150	145	14
1	RU	3	10	100	110	120	85	100	95	90	80	70	80	90	105	120	105	9
0	RU	125	110	105	100	-1	64	69	62	59	66	92	88	84	77	66	73	8
1	RU	3	20	55	55	59	50	48	44	49	72	111	118	102	88	69	86	10
5	RU	3	25	55	53	54	61	57	58	66	88	130	133	121	116	105	117	12
1	RU	3	30	71	68	67	80	82	87	92	109	146	143	132	163	154	168	17
6	RU	3	35	85	83	80	100	99	107	117	138	181	167	154	201	185	209	22
1	RU	3	40	107	105	102	121	127	131	137	153	190	188	179	210	204	235	26
7	RU	232	234	235	234	-1	137	143	146	146	144	166	164	175	205	211	245	27
0	RU	268	272	272	271	-1	153	159	159	153	146	173	168	180	202	219	248	26
1	RU	3	50	127	128	132	186	187	184	175	156	193	191	207	222	229	244	26
0	RU	273	274	276	275	-1	205	219	221	212	175	217	201	202	237	268	285	29
1	RU	3	55	148	149	151	230	248	260	258	229	337	308	301	314	305	298	30
7	RU	276	287	293	296	-1	290	310	316	318	281	405	372	361	360	321	313	32
1	RU	3	60	191	190	188	321	322	312	355	357	359	355	398	424	345	326	33
0	RU	271	285	291	294	-1	383	404	400	476	476	477	471	508	521	397	376	37
1	RU	3	65	174	179	188	419	414	414	414	414	414	414	414	414	414	414	414
9	RU	295	288	281	276	-1	414	414	414	414	414	414	414	414	414	414	414	414
1	RU	3	70	187	194	206	414	414	414	414	414	414	414	414	414	414	414	414
7	RU	308	304	307	302	-1	414	414	414	414	414	414	414	414	414	414	414	414
1	RU	3	75	243	250	263	414	414	414	414	414	414	414	414	414	414	414	414
6	RU	353	369	377	380	-1	414	414	414	414	414	414	414	414	414	414	414	414
1	RU	3	80	306	307	312	414	414	414	414	414	414	414	414	414	414	414	414
4	RU	374	405	415	424	-1	414	414	414	414	414	414	414	414	414	414	414	414
1	RU	3	85	342	344	351	414	414	414	414	414	414	414	414	414	414	414	414
9	RU	398	410	414	414	-1	414	414	414	414	414	414	414	414	414	414	414	414

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START COL	1	2	3	4	5	6	7	8	9	10
1	RU	3	90	500	500	500	500	500	500	500
1	O	545	530	535	540	-1				
1	RU	3	95	515	515	515	515	515	515	515
1	O	540	530	533	535	-1				
1	RU	3	100	530	530	530	530	530	530	530
1	O	535	530	530	530	-1				
1	RU	3	105	528	528	528	528	528	528	528
1	5	531	528	528	528	-1				
1	RU	3	110	525	525	525	525	525	525	525
1	O	528	525	525	525	-1				
1	RU	3	115	523	523	523	523	523	523	523
1	5	524	523	523	523	-1				
1	RU	3	120	520	520	520	520	520	520	520
1	O	520	520	520	520	-1				
1	RU	3	140	690	690	690	690	690	690	690
1	O	690	690	690	690	-1				
1	RU	3	160	870	870	870	870	870	870	870
1	O	870	870	870	870	-1				
1	RU	3	180	870	870	870	870	870	870	870
1	O	870	870	870	870	-1				
1	RU	3	200	870	870	870	870	870	870	870
1	O	870	870	870	870	-1				
1	RU	4	0	50	50	50	50	50	50	50
1	O	50	50	50	50	-1				
1	RU	4	5	90	95	100	100	100	100	100
1	O	105	100	100	100	-1				
1	RU	4	10	130	130	130	130	130	130	130
1	O	130	110	100	90	-1				
1	RU	4	15	80	85	90	90	90	90	90
1	O	90	90	95	100	-1				
1	RU	4	20	68	68	81	81	81	81	81
1	7	76	76	72	70	-1				
1	RU	4	25	82	81	85	85	85	85	85
1	6	60	56	53	54	-1				
1	RU	4	30	101	96	82	82	82	82	82
1	2	83	76	73	73	-1				
1	RU	4	35	102	104	107	113	113	113	113
1	1	112	96	89	86	-1				
1	RU	4	40	101	105	113	126	126	126	126
1	4	134	119	109	105	-1				
1	RU	4	45	103	110	121	143	143	143	143
1	3	152	135	126	122	-1				
1	RU	4	50	126	135	149	168	168	168	168
1	7	167	150	142	138	-1				
1	RU	4	55	156	162	178	204	204	204	204
1	1	181	168	162	158	-1				
1	RU	4	60	178	185	200	218	218	218	218
1	5	198	177	165	158	-1				
1	RU	4	65	189	196	213	242	242	242	242
1	8	210	193	185	180	-1				
1	RU	4	70	204	212	226	254	254	254	254
1	2	245	225	216	209	-1				

[illegible]

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START COL	1	2	3	4	5	6	7	8	9	10								
1	RU	5	60	285	283	272	254	245	253	230	226	238	225	217	167	151	143	13
8	131	133	137	139	-1													
1	RU	5	65	265	268	268	272	275	303	285	261	249	226	215	185	191	187	18
1	165	159	156	154	-1													
1	RU	5	70	230	238	249	275	285	341	320	298	315	298	295	237	223	219	20
9	193	192	194	192	-1													
1	RU	5	75	299	300	305	309	303	356	336	326	372	358	354	295	274	274	27
1	254	254	259	257	-1													
1	RU	5	80	361	354	348	323	299	314	342	344	345	339	363	390	354	330	31
2	312	306	302	301	-1													
1	RU	5	85	373	368	362	344	340	353	408	423	437	442	461	488	456	418	40
1	368	344	344	343	-1													
1	RU	5	90	540	535	530	545	560	560	560	660	760	775	790	805	820	770	72
0	610	500	500	500	-1													
1	RU	5	95	535	533	530	540	550	565	580	665	750	763	775	788	800	735	67
0	593	515	515	515	-1													
1	RU	5	100	530	530	530	535	540	570	600	670	740	750	760	770	780	700	62
0	575	530	530	530	-1													
1	RU	5	105	528	528	528	531	535	574	613	673	733	741	750	759	768	681	59
5	561	528	528	528	-1													
1	RU	5	110	525	525	525	528	530	578	625	675	725	733	740	748	755	663	57
0	548	525	525	525	-1													
1	RU	5	115	523	523	523	524	525	581	638	678	718	724	730	736	743	644	54
5	534	523	523	523	-1													
1	RU	5	120	520	520	520	520	520	585	650	680	710	715	720	725	730	625	52
0	520	520	520	520	-1													
1	RU	5	140	690	690	690	690	690	690	690	690	690	690	690	690	690	690	69
0	690	690	690	690	-1													
1	RU	5	160	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
0	870	870	870	870	-1													
1	RU	5	180	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
0	870	870	870	870	-1													
1	RU	5	200	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
0	870	870	870	870	-1													
1	RU	6	0	60	60	60	65	70	60	50	35	20	20	20	30	40	45	5
0	45	40	40	40	-1													
1	RU	6	5	110	110	110	115	120	105	90	70	50	50	50	65	80	95	11
0	110	110	110	110	-1													
1	RU	6	10	100	105	110	130	150	150	150	115	80	70	60	85	110	125	14
0	130	120	115	110	-1													
1	RU	6	15	90	90	90	95	100	110	120	105	90	80	70	85	100	95	9
0	75	60	55	50	-1													
1	RU	6	20	94	92	89	91	97	84	70	74	94	80	62	58	53	48	4
4	39	36	33	30	-1													
1	RU	6	25	103	109	118	134	149	146	123	105	102	104	91	69	47	33	2
5	25	26	27	27	-1													
1	RU	6	30	145	145	144	144	159	160	128	123	136	129	96	79	64	47	3
6	31	26	24	24	-1													
1	RU	6	35	160	161	168	178	190	203	177	151	147	130	102	105	75	66	5
7	50	49	50	50	-1													
1	RU	6	40	186	188	196	203	208	233	210	183	178	157	139	138	90	78	6
6	58	61	65	67	-1													

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	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
1	RU	6	45	209	213	224	234	240	270	250	229	223	195	169	148	105	91	7		
1	RU	8	70	74	79	80	-1													
1	RU	6	50	244	248	257	264	269	293	276	258	244	206	177	146	119	115	11		
1	RU	1	107	114	120	122	-1													
1	RU	6	55	234	240	259	281	290	306	300	270	244	223	214	160	128	109	9		
1	RU	9	102	120	132	137	-1													
1	RU	6	60	262	264	273	285	282	296	281	273	258	229	229	171	140	124	11		
1	RU	1	106	126	141	148	-1													
1	RU	6	65	241	248	262	292	307	341	323	298	268	221	227	193	179	168	15		
1	RU	3	130	129	129	127	-1													
1	RU	6	70	205	220	244	290	306	378	357	333	332	307	306	250	208	198	18		
1	RU	2	163	171	181	183	-1													
1	RU	6	75	302	304	317	332	323	383	348	338	373	361	360	320	279	279	26		
1	RU	7	248	256	264	263	-1													
1	RU	6	80	374	368	371	356	331	328	315	329	343	347	385	427	370	377	35		
1	RU	8	340	320	310	305	-1													
1	RU	6	85	369	366	370	362	360	360	366	397	429	447	482	529	486	483	45		
1	RU	9	421	364	348	341	-1													
1	RU	6	90	560	555	550	585	620	580	540	650	760	785	810	880	950	905	86		
1	RU	0	680	500	500	500	-1													
1	RU	6	95	545	543	540	568	595	580	565	658	750	770	790	848	905	840	77		
1	RU	5	645	515	515	515	-1													
1	RU	6	100	530	530	530	550	570	580	590	665	740	755	770	815	860	775	69		
1	RU	0	610	530	530	530	-1													
1	RU	6	105	528	528	528	543	558	580	603	669	735	748	760	799	838	743	64		
1	RU	8	588	528	528	528	-1													
1	RU	6	110	525	525	525	535	545	580	615	673	730	740	750	783	815	710	60		
1	RU	5	565	525	525	525	-1													
1	RU	6	115	523	523	523	528	533	580	628	676	725	733	740	766	793	678	56		
1	RU	3	543	523</																

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MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0								
1	RU	7	30	199	198	194	185	163	176	135	129	143	130	101	71	50	33	2
7	24	21	21	22	-1													
1	RU	7	35	240	239	233	220	228	219	178	158	158	133	108	102	65	51	4
5	43	55	62	65	-1													
1	RU	7	40	243	248	252	257	278	273	218	181	163	147	141	133	82	69	6
4	60	76	89	93	-1													
1	RU	7	45	267	277	288	307	341	330	264	223	197	185	187	153	99	84	7
4	66	80	92	95	-1													
1	RU	7	50	305	317	328	347	380	363	296	254	225	223	227	165	102	88	7
8	73	91	103	105	-1													
1	RU	7	55	394	390	369	331	380	369	311	263	230	212	223	164	120	102	9
1	84	99	108	109	-1													
1	RU	7	60	372	364	342	300	338	344	312	270	240	234	263	203	162	128	10
5	90	116	135	140	-1													
1	RU	7	65	336	334	320	303	356	374	343	288	250	213	217	205	209	192	17
7	148	148	146	143	-1													
1	RU	7	70	348	346	322	290	356	398	375	334	328	302	292	250	214	184	17
3	159	192	213	216	-1													
1	RU	7	75	469	455	417	344	369	392	353	342	375	359	352	324	294	272	26
9	252	280	301	304	-1													
1	RU	7	80	564	539	486	380	378	391	330	340	350	349	384	424	374	348	35
5	344	346	349	348	-1													
1	RU	7	85	526	508	491	423	397	417	366	404	443	458	500	554	495	458	46
1	440	420	415	410	-1													
1	RU	7	90	870	840	810	720	630	585	540	650	760	790	820	910	1000	955	91
0	835	760	730	700	-1													
1	RU	7	95	700	685	670	638	605	585	565	658	750	775	800	860	920	868	81
5	730	645	630	615	-1													
1	RU	7	100	530	530	530	555	580	585	590	665	740	760	780	810	840	780	72
0	625	530	530	530	-1													
1	RU	7	105	528	528	528	559	590	596	603	669	735	751	768	783	798	734	67
0	599	528	528	528	-1													
1	RU	7	110	525	525	525	563	600	608	615	673	730	743	755	755	755	688	62
0	573	525	525	525	-1													
1	RU	7	115	523	523	523	566	610	619	628	676	725	734	743	728	713	641	57
0	546	523	523	523	-1													
1	RU	7	120	520	520	520	570	620	630	640	680	720	725	730	700	670	595	52
0	520	520	520	520	-1													
1	RU	7	140	690	690	690	690	690	690	690	690	690	690	690	690	690	690	69
0	690	690	690	690	-1													
1	RU	7	160	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
0	870	870	870	870	-1													
1	RU	7	180	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
0	870	870	870	870	-1													
1	RU	7	200	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
0	870	870	870	870	-1													
1	RU	8	0	60	60	60	60	60	55	50	35	20	20	20	25	30	40	5
0	80	50	50	50	-1													
1	RU	8	5	100	105	110	115	120	110	100	80	60	55	50	50	50	65	8
0	85	90	90	90	-1													
1	RU	8	10	110	115	120	135	150	155	160	120	80	70	60	70	80	105	13
0	125	120	115	110	-1													

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START COL	1	2	3	4	5	6	7	8	9	0
1	RU	9	0	50	50	55	60	55	60	55
0	55	60	60	60	60	110	110	110	110	110
1	RU	9	5	110	110	110	110	110	110	110
0	95	90	90	90	90	125	140	145	150	115
1	RU	9	10	100	105	110	110	110	110	110
0	135	120	110	100	90	90	90	90	90	90
1	RU	9	15	90	90	90	90	90	90	90
0	85	70	60	50	50	111	114	91	76	72
1	RU	9	20	106	106	116	121	100	76	83
3	46	40	39	39	39	125	121	100	76	83
1	RU	9	25	140	138	134	125	101	132	110
8	40	41	43	44	44	121	101	132	110	109
1	RU	9	30	143	141	134	121	174	154	132
1	54	55	56	58	58	172	181	174	154	132
1	RU	9	35	174	174	173	211	212	179	152
4	81	81	84	87	87	248	249	234	197	169
1	RU	9	40	204	206	208	254	241	206	174
4	103	108	111	114	114	262	267	247	216	186
1	RU	9	45	253	254	253	260	260	243	216
9	122	120	121	122	122	255	254	241	206	174
1	RU	9	50	262	262	259	262	247	216	186
2	134	133	131	131	131	262	267	247	216	186
1	RU	9	55	278	277	271	260	260	243	216
6	150	150	150	150	150	253	260	260	243	216
1	RU	9	60	265	264	261	272	299	280	230
1	179	187	194	196	196	269	301	299	280	230
1	RU	9	65	247	253	261	317	313	312	286
3	196	189	186	183	183	313	341	322	320	311
1	RU	9	70	260	265	264	337	319	333	337
0	215	209	207	203	203	340	337	319	333	337
1	RU	9	75	337	335	328	375	369	392	414
0	276	265	263	259	259	372	375	369	392	414
1	RU	9	80	401	392	378	560	560	560	660
0	316	314	313	312	312	545	560	560	560	660
1	RU	9	85	410	403	394	540	550	580	663
1	373	349	349	348	348	540	550	550	580	663
1	RU	9	90	540	535	530	540	550	580	663
0	610	500	500	500	500	535	540	550	580	663
1	RU	9	95	535	533	530	535	540	550	580
0	593	515	515	515	515	535	540	550	580	663
1	RU	9	100	530	530	530	535	540	550	580
0	575	530	530	530	530	531	535	574	613	669
1	RU	9	105	528	528	528	530	574	613	669
5	561	528	528	528	528	528	530	574	613	669
1	RU	9	110	525	525	525	528	574	613	669
0	548	525	525	525	525	528	528	574	613	669
1	RU	9	115	523	523	523	528	574	613	669
5	534	523	523	523	523	528	528	574	613	669
1	RU	9	120	520	520	520	528	574	613	669
0	520	520	520	520	520	528	528	574	613	669
1	RU	9	140	690	690	690	690	690	690	690
0	690	690	690	690	690	690	690	690	690	690

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START COL	1	2	3	4	5	6	7	8	9	0
1	RU	9	160	870	870	870	870	870	870	870
0	870	870	870	870	-1					87
1	RU	9	180	870	870	870	870	870	870	870
0	870	870	870	870	-1					87
1	RU	9	200	870	870	870	870	870	870	870
0	870	870	870	870	-1					87
1	RU	10	0	50	50	50	50	50	50	6
0	55	50	50	50	-1					
1	RU	10	5	100	100	100	100	100	100	11
0	105	100	95	90	-1					
1	RU	10	10	90	100	110	130	150	140	15
0	140	130	130	130	-1					
1	RU	10	15	100	95	90	90	100	110	15
0	95	90	85	80	-1					
1	RU	10	20	95	95	130	121	102	78	10
7	61	61	59	59	-1					
1	RU	10	25	79	77	94	88	77	67	5
0	69	75	77	78	-1					
1	RU	10	30	128	122	107	83	86	92	6
3	84	83	82	82	-1					
1	RU	10	35	138	139	140	146	138	130	8
9	113	109	107	105	-1					
1	RU	10	40	147	150	155	162	157	151	11
6	132	122	117	114	-1					
1	RU	10	45	160	163	168	178	176	169	14
3	149	130	121	115	-1					
1	RU	10	50	170	173	179	190	191	183	17
3	172	155	143	136	-1					
1	RU	10	55	189	191	194	202	202	196	19
2	197	186	179	176	-1					
1	RU	10	60	209	213	219	228	223	209	21
7	216	209	201	197	-1					
1	RU	10	65	225	228	231	239	234	225	22
5	245	226	216	210	-1					
1	RU	10	70	269	273	275	282	273	257	26
3	264	250	244	239	-1					
1	RU	10	75	299	302	301	306	308	289	28
0	296	279	273	267	-1					
1	RU	10	80	359	351	334	302	295	288	32
7	308	315	317	319	-1					
1	RU	10	85	398	389	367	336	351	359	31
3	351	345	346	348	-1					
1	RU	10	90	490	490	490	485	480	535	37
0	485	490	490	490	-1					
1	RU	10	95	510	510	510	500	490	555	48
0	500	510	510	510	-1					
1	RU	10	100	530	530	530	515	500	575	49
0	515	530	530	530	-1					
1	RU	10	105	528	528	528	516	505	585	50
5	516	528	528	528	-1					
1	RU	10	110	525	525	525	518	510	595	50
0	518	525	525	525	-1					

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START COL	1	2	3	4	5	6	7	8	9	0								
1	RU	11	100	530	530	530	575	620	700	780	770	760	750	740	670	600	570	54
	O	535	530	530	530	-1	561	595	681	768	759	750	741	733	673	613	574	53
1	RU	11	105	528	528	528	548	570	663	755	748	740	733	725	675	625	578	53
	5	531	528	528	528	-1	534	545	644	743	736	730	724	718	678	638	581	52
1	RU	11	110	525	525	525	520	520	625	730	725	720	715	710	680	650	585	52
	O	528	525	525	525	-1	520	520	690	690	690	690	690	690	690	690	690	69
1	RU	11	115	523	523	523	690	870	870	870	870	870	870	870	870	870	870	87
	5	524	523	523	523	-1	870	870	870	870	870	870	870	870	870	870	870	87
1	RU	11	120	520	520	520	870	870	870	870	870	870	870	870	870	870	870	87
	O	520	520	520	520	-1	870	870	870	870	870	870	870	870	870	870	870	87
1	RU	11	140	690	690	690	45	50	45	40	30	20	20	20	35	50	60	7
	O	690	690	690	690	-1	110	110	95	80	65	50	50	50	70	90	105	12
1	RU	11	160	870	870	870	130	140	125	110	85	60	70	80	115	150	150	15
	O	870	870	870	870	-1	75	90	95	100	85	70	80	90	105	120	110	10
1	RU	11	180	870	870	870	56	61	56	56	59	79	80	77	72	69	79	9
	O	870	870	870	870	-1	35	36	36	45	70	106	105	90	105	127	144	15
1	RU	11	200	870	870	870	39	44	47	57	79	109	129	123	128	140	163	18
	O	870	870	870	870	-1	55	63	64	72	85	115	130	136	186	194	218	23
1	RU	11	200	870	870	870	60	69	73	86	105	147	156	168	233	239	256	25
	O	870	870	870	870	-1	72	80	87	101	125	172	193	213	267	282	292	28
1	RU	12	20	46	49	53	110	113	113	116	132	173	200	229	281	307	314	30
	4	97	91	90	91	-1	106	103	112	126	154	202	213	224	266	315	334	32
1	RU	12	25	38	38	38	120	121	125	139	167	213	216	234	254	300	317	32
	5	145	116	93	85	-1	142	163	171	179	184	214	210	246	286	330	342	35
1	RU	12	30	36	36	37	176	201	201	210	224	302	300	314	349	368	362	37
	5	180	155	140	135	-1	259	293	278	284	287	375	364	367	383	362	364	39
1	RU	12	35	49	49	50	312	339	345	370	370	370	365	410	438	380	356	40
	O	226	208	197	194	-1	475	468	468	468	475	-1	-1	-1	-1	-1	-1	-1
1	RU	12	40	56	56	56	118	120	125	139	167	213	216	234	254	300	317	32
	9	261	246	233	230	-1	122	142	163	171	179	184	210	246	286	330	342	35
1	RU	12	45	68	68	68	122	142	163	171	179	184	210	246	286	330	342	35
	6	290	274	258	253	-1	122	142	163	171	179	184	210	246	286	330	342	35
1	RU	12	50	108	108	108	122	142	163	171	179	184	210	246	286	330	342	35
	8	312	302	292	287	-1	122	142	163	171	179	184	210	246	286	330	342	35
1	RU	12	55	123	120	114	122	142	163	171	179	184	210	246	286	330	342	35
	8	337	330	321	318	-1	122	142	163	171	179	184	210	246	286	330	342	35
1	RU	12	60	122	120	118	122	142	163	171	179	184	210	246	286	330	342	35
	4	337	344	347	348	-1	122	142	163	171	179	184	210	246	286	330	342	35
1	RU	12	65	104	110	122	122	142	163	171	179	184	210	246	286	330	342	35
	2	343	330	326	323	-1	122	142	163	171	179	184	210	246	286	330	342	35
1	RU	12	70	153	156	160	122	142	163	171	179	184	210	246	286	330	342	35
	6	364	343	334	325	-1	122	142	163	171	179	184	210	246	286	330	342	35
1	RU	12	75	236	241	245	122	142	163	171	179	184	210	246	286	330	342	35
	1	RU	12	413	417	416	122	142	163	171	179	184	210	246	286	330	342	35
1	RU	12	80	311	312	311	122	142	163	171	179	184	210	246	286	330	342	35
	6	446	468	468	475	-1	122	142	163	171	179	184	210	246	286	330	342	35

	1	2	3	4	5	6	7	8	9	0							
RV	5	10	110	115	120	140	160	140	120	90	60	55	50	80	110	130	15
O	130	110	100	90	-1												
RV	5	15	90	90	90	95	100	100	100	80	60	60	60	80	100	95	9
O	75	60	55	50	-1												
RV	5	20	84	84	85	73	59	46	36	33	33	34	30	31	34	35	3
6	38	39	40	40	-1												
RV	5	25	126	120	109	86	61	42	29	28	30	30	28	24	20	19	1
9	23	25	29	31	-1												
RV	5	30	148	145	137	102	80	57	41	35	37	50	49	39	28	27	2
7	27	28	30	30	-1												
RV	5	35	174	168	157	127	98	73	57	51	55	68	60	50	43	43	4
4	40	38	46	49	-1												
RV	5	40	183	176	161	133	107	83	68	58	56	62	56	48	45	45	4
7	48	52	67	73	-1												
RV	5	45	199	193	179	152	124	101	84	73	78	112	99	76	56	56	5
6	55	58	74	79	-1												
RV	5	50	229	222	207	180	152	123	98	81	83	120	113	84	60	59	6
O	64	71	94	103	-1												
RV	5	55	231	224	206	180	162	135	112	101	108	140	128	99	72	74	7
8	79	86	111	119	-1												
RV	5	60	230	225	215	192	177	154	128	109	114	161	153	119	90	90	9
2	91	94	117	125	-1												
RV	5	65	268	261	248	224	210	185	156	137	132	138	131	119	117	115	11
3	105	102	125	133	-1												
RV	5	70	280	271	252	211	189	168	148	134	141	148	141	139	149	149	15
1	139	138	173	181	-1												
RV	5	75	286	282	270	253	255	242	230	217	229	249	225	195	189	211	23
5	242	267	310	326	-1												
RV	5	80	383	376	360	342	335	300	274	268	249	294	262	259	277	280	29
3	286	295	333	344	-1												
RV	5	85	379	372	352	367	397	369	351	366	361	432	376	350	352	345	34
8	322	314	369	388	-1												
RV	5	90	560	555	550	820	1090	1045	1000	880	760	745	730	795	860	920	98
O	750	520	515	510	-1												
RV	5	95	545	543	540	745	950	950	950	850	750	738	725	778			

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START COL	1	2	3	4	5	6	7	8	9	0
1	RV	5	200	870	870	870	870	870	870	87
0	870	870	870	870	-1					
1	RV	6	0	60	60	60	60	60	40	45
0	50	50	45	40	-1					
1	RV	6	5	110	110	110	110	110	60	75
0	90	90	90	90	-1					
1	RV	6	10	100	110	120	135	150	70	115
0	130	120	115	110	-1					
1	RV	6	15	100	100	100	100	100	70	80
0	70	60	60	60	-1					
1	RV	6	20	99	96	90	82	69	31	34
5	33	31	32	32	-1					
1	RV	6	25	96	97	100	103	102	36	43
9	18	16	16	16	-1					
1	RV	6	30	185	178	164	137	110	46	34
2	20	18	17	17	-1					
1	RV	6	35	221	213	195	167	138	50	48
9	35	34	41	44	-1					
1	RV	6	40	261	251	229	196	165	52	48
3	39	40	49	50	-1					
1	RV	6	45	279	269	245	207	176	67	57
3	47	45	57	60	-1					
1	RV	6	50	275	270	254	224	199	73	67
5	59	58	72	74	-1					
1	RV	6	55	275	267	250	216	195	97	86
0	67	70	91	98	-1					
1	RV	6	60	261	255	242	216	205	101	90
5	87	88	111	119	-1					
1	RV	6	65	292	286	279	258	256	125	125
5	102	96	111	116	-1					
1	RV	6	70	314	301	280	230	217	148	165
6	130	114	135	133	-1					
1	RV	6	75	275	274	267	259	287	199	222
6	258	272	309	323	-1					
1	RV	6	80	390	384	373	353	346	263	282
0	268	265	291	295	-1					
1	RV	6	85	372	369	361	383	417	353	341
1	RV	6	302	298	331	338	870	1180	765	920
1	RV	6	90	570	565	560	870	1155	835	960
0	750	500	495	490	-1					
1	RV	6	95	550	548	545	780	1015	813	885
0	698	515	513	510	-1					
1	RV	6	100	530	530	530	690	850	790	850
0	645	530	530	530	-1					
1	RV	6	105	528	528	528	648	768	780	768
0	614	528	528	528	-1					
1	RV	6	110	525	525	525	605	685	770	730
0	583	525	525	525	-1					
1	RV	6	115	523	523	523	563	603	760	693
0	551	523	523	523	-1					
1	RV	6	120	520	520	520	520	520	750	655
0	520	520	520	520	-1					

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START COL	1	2	3	4	5	6	7	8	9	0
1	RV	6	140	690	690	690	690	690	690	69
1	O	690	690	690	690	690	690	690	690	69
1	RV	6	160	870	870	870	870	870	870	87
1	O	870	870	870	870	870	870	870	870	87
1	RV	6	180	870	870	870	870	870	870	87
1	O	870	870	870	870	870	870	870	870	87
1	RV	6	200	870	870	870	870	870	870	87
1	O	870	870	870	870	870	870	870	870	87
1	RV	7	0	50	50	50	50	50	50	5
1	O	45	40	40	40	40	40	40	40	5
1	RV	7	5	110	110	110	110	110	110	8
1	O	80	80	80	80	80	80	80	80	8
1	RV	7	10	110	115	120	135	150	140	14
1	O	130	120	115	110	110	105	100	100	14
1	RV	7	15	110	110	110	105	100	100	9
1	O	75	60	55	50	50	50	50	50	9
1	RV	7	20	111	108	108	94	77	54	3
1	O	33	32	30	28	28	120	95	61	3
1	RV	7	25	153	149	142	120	95	61	1
1	O	18	18	19	19	19	147	128	88	1
1	RV	7	30	174	171	166	147	128	88	1
1	O	19	17	18	18	18	180	148	110	3
1	RV	7	35	232	227	217	180	148	110	3
1	O	29	29	46	51	51	223	180	135	4
1	RV	7	40	303	292	271	223	180	135	4
1	O	38	39	67	75	75	262	207	164	5
1	RV	7	45	357	344	319	262	207	164	5
1	O	47	47	78	88	88	291	232	186	6
1	RV	7	50	394	379	350	291	232	186	6
1	O	51	55	86	96	96	267	219	181	5
1	RV	7	55	342	331	312	267	219	181	5
1	O	64	68	96	104	104	246	210	184	6
1	RV	7	60	308	298	281	246	210	184	6
1	O	94	99	127	134	134	267	247	218	10
1	RV	7	65	293	289	285	267	247	218	10
1	O	114	111	133	138	138	260	223	200	12
1	RV	7	70	313	305	298	260	223	200	12
1	O	129	117	151	151	151	282	292	287	15
1	RV	7	75	262	267	272	282	292	287	15
1	O	266	288	342	360	360	371	366	328	26
1	RV	7	80	381	378	376	371	366	328	26
1	O	270	263	307	314	314	462	449	412	28
1	RV	7	85	479	477	474	462	449	412	28
1	O	309	305	349	357	357	1180	1210	1195	32
1	RV	7	90	1120	1135	1150	1180	1210	1195	32
1	O	905	800	760	720	720	940	1040	1070	101
1	RV	7	95	825	833	840	940	1040	1070	101
1	O	778	665	645	625	625	700	870	945	89
1	RV	7	100	530	530	530	700	870	945	89
1	O	650	530	530	530	530	555	783	880	77
1	RV	7	105	528	528	528	555	783	880	77
1	O	618	528	528	528	528	8	618	528	70

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START COL	1	2	3	4	5	6	7	8	9	10								
1	RV	7	110	525	525	525	610	695	815	935	835	735	728	720	730	740	693	64
5	585	525	525	525	525	-1	565	608	750	893	810	728	721	715	710	705	644	58
1	RV	7	115	523	523	523	565	608	750	893	810	728	721	715	710	705	644	58
3	553	523	523	523	523	-1	520	520	685	850	785	720	715	710	690	670	595	52
1	RV	7	120	520	520	520	520	520	690	690	690	690	690	690	690	690	690	69
1	RV	7	140	690	690	690	690	690	690	690	690	690	690	690	690	690	690	69
1	RV	7	160	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
1	RV	7	180	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
1	RV	7	200	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
1	RV	7	220	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
1	RV	8	0	60	60	60	55	50	55	60	40	20	20	20	25	30	35	4
1	RV	8	0	40	40	40	115	120	105	90	65	40	40	40	45	50	70	9
1	RV	8	5	110	110	110	130	140	145	150	110	70	60	50	65	80	110	14
1	RV	8	10	120	120	120	100	90	100	110	90	70	60	50	60	70	85	10
1	RV	8	15	120	115	110	96	72	51	38	32	33	34	30	28	29	31	3
1	RV	8	20	133	130	115	114	97	58	29	26	29	29	26	23	21	20	1
6	35	33	32	32	32	-1	143	125	81	48	38	38	41	38	32	27	24	2
1	RV	8	25	153	148	129	174	143	100	65	54	55	63	58	47	42	39	3
9	20	19	20	20	20	-1	197	164	123	86	66	58	67	67	54	49	46	4
1	RV	8	30	190	183	169	219	180	142	105	84	77	85	80	68	64	61	5
1	RV	8	35	250	238	207	273	242	198	141	97	74	86	88	79	74	68	6
1	RV	8	40	282	268	234	273	242	198	141	97	74	86	88	79	74	68	6
1	RV	8	45	319	304	267	273	242	198	141	97	74	86	88	79	74	68	6
1	RV	8	50	344	332	306	273	242	198	141	97	74	86	88	79	74	68	6
1	RV	8	55	321	303	257	273	242	198	141	97	74	86	88	79	74	68	6
1	RV	8	60	284	271	237	273	242	198	141	97	74	86	88	79	74	68	6
1	RV	8	65	329	314	280	273	242	198	141	97	74	86	88	79	74	68	6
1	RV	8	70	379	355	301	273	242	198	141	97	74	86	88	79	74	68	6
1	RV	8	75	351	338	294	273	242	198	141	97	74	86	88	79	74	68	6
1	RV	8	80	475	456	404	273	242	198	141	97	74	86	88	79	74	68	6
1	RV	8	85	450	435	394	273	242	198	141	97	74	86	88	79	74	68	6
1	RV	8	90	560	565	570	273	242	198	141	97	74	86	88	79	74	68	6
1	RV	8	95	495	490	-1	273	242	198	141	97	74	86	88	79	74	68	6
1	RV	8	100	495	490	-1	273	242	198	141	97	74	86	88	79	74	68	6

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START
 COL

	1	2	3	4	5	6	7	8	9	0							
1 RV	12	35	50	48	42	42	42	44	49	49	54	62	65	65	77	110	15
1 O	192	221	259	274	-1	45	45	49	53	51	56	65	73	80	102	139	18
1	225	258	306	324	-1	52	55	57	61	65	75	85	92	96	114	152	19
1 RV	12	45	56	55	48	64	67	66	68	71	80	90	99	110	134	176	21
1 RV	12	50	66	67	61	72	72	77	86	94	109	121	125	127	142	177	20
1 RV	12	55	89	85	73	97	96	91	90	101	117	128	132	140	164	192	21
1 RV	12	60	123	115	94	111	116	121	126	130	140	140	134	146	178	226	26
1 RV	12	65	119	116	103	144	158	160	165	148	148	152	148	142	161	195	22
1 RV	12	70	141	143	126	271	257	221	190	198	228	253	238	234	260	278	29
1 RV	12	75	333	319	282	282	294	285	287	267	248	296	269	268	290	329	37
1 RV	12	80	312	305	271	318	338	342	359	366	363	435	384	361	366	399	43
1 RV	12	85	357	345	300	750	1000	960	920	835	750	765	780	955	1130	1155	118
1 RV	12	90	490	495	500	698	880	883	885	813	740	753	765	913	1060	1038	101
1 RV	12	95	510	513	515	645	760	805	850	790	730	740	750	870	990	920	85
1 RV	12	100	530	530	530	614	700	768	835	780	725	734	743	848	953	860	76
1 RV	12	105	528	528	528	583	640	730	820	770	720	728	735	825	915	800	68
1 RV	12	110	525	525	525	551	580	693	805	760	715	721	728	803	878	740	60
1 RV	12	115	523	523	523	520	520	655	790	750	710	715	720	780	840	680	52
1 RV	12	120	520	520	520	690	690	690	690	690	690	690	690	690	690	690	69
1 RV	12	140	690	690	690	870	870	870	870	870	870	870	870	870	870	870	87
1 RV	12	160	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
1 RV	12	180	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
1 RV	12	200	870	870	870	870	870	870	870	870	870	870	870	870	870	870	87
1 O	870	870	870	870	870	498	435	415	633	504	414	361	341	485	495		
1 P	13	762	829	852	599	535	488	473	617	522	455	417	401	472	495		
1 P	13	758	827	851	610	572	540	530	601	540	497	472	461	459	496		
1 P	13	753	825	850	622	608	592	587	586	557	538	527	522	447	496		
1 P	13	749	824	849	633												

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START COL	1	2	3	4	5	6	7	8	9	0				
1 P	13	20	652	644	645	644	645	570	575	579	582	582	434	497
1 P	745	822	848	643	663	673	677	616	613	611	611	610	445	519
1 P	732	803	827	672	719	747	757	500	591	656	695	707	390	454
1 P	740	828	857	696	784	838	856	459	613	722	788	810	362	520
1 P	752	850	883	692	808	877	900	508	654	758	821	841	412	588
1 P	714	790	815	690	802	869	892	534	670	766	824	844	440	551
1 P	630	678	693	667	789	863	887	491	649	762	830	853	418	493
1 P	545	577	588	646	770	846	871	483	636	746	812	834	430	472
1 P	502	520	526	655	753	813	832	587	673	734	771	784	544	570
1 P	588	600	604	642	707	747	760	681	710	730	742	747	677	703
1 P	722	733	737	629	662	682	688	648	663	673	679	681	574	587
1 P	597	602	604	616	616	616	616	615	615	615	615	615	471	471
1 P	471	471	471	637	637	637	637	571	571	571	571	571	455	455
1 P	455	455	455	657	657	657	657	526	526	526	526	526	439	439
1 P	439	439	439	678	678	678	678	482	482	482	482	482	422	422
1 P	422	422	422	719	719	719	719	393	393	393	393	393	390	390
1 P	390	390	390	599	599	599	599	328	328	328	328	328	325	325
1 P	325	325	325	479	479	479	479	262	262	262	262	262	260	260
1 P	260	260	260	360	360	360	360	197	197	197	197	197	195	195
1 P	195	195	195	240	240	240	240	131	131	131	131	131	130	130
1 P	130	130	130	120	120	120	120	66	66	66	66	66	65	65
1 P	65	65	65	911	866	873	828	320	606	921	693	733	733	733
1 PW	13	0	961	904	869	847	840	321	599	892	721	759	759	759
1 PW	13	5	941	897	873	857	852	323	591	864	748	785	785	785
1 PW	13	10	922	890	876	867	864	324	583	835	775	810	810	810
1 PW	13	15	903	880	877	876	876	327	575	806	803	836	836	836
1 PW	13	20	884	883	880	877	876	327	575	806	803	836	836	836

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START COL	1	2	3	4	5	6	7	8	9	0		
1 PW	13	25	864	878	887	892	894	344	575	739	839	872
1 PW	13	30	854	872	885	892	895	324	552	751	832	859
1 PW	13	35	821	858	885	901	906	304	545	786	890	918
1 PW	13	40	794	854	896	921	930	328	550	706	944	974
1 PW	13	45	798	853	899	927	937	349	537	618	920	943
1 PW	13	50	768	831	876	903	912	339	489	650	856	889
1 PW	13	55	734	761	781	793	797	366	450	649	771	811
1 PW	13	60	721	686	662	647	642	469	550	674	749	773
1 PW	13	65	743	720	704	694	690	601	713	794	842	858
1 PW	13	70	765	753	745	740	739	694	750	790	814	822
1 PW	13	75	787	787	787	787	787	787	787	787	787	787
1 PW	13	80	760	760	760	760	760	760	760	760	760	760
1 PW	13	85	734	734	734	734	734	734	734	734	734	734
1 PW	13	90	707	707	707	707	707	707	707	707	707	707
1 PW	13	100	654	654	654	654	654	654	654	654	654	654
1 PW	13	120	615	615	615	615	615	615	615	615	615	615
1 PW	13	140	575	575	575	575	575	575	575	575	575	575
1 PW	13	160	536	536	536	536	536	536	536	536	536	536
1 PW	13	180	496	496	496	496	496	496	496	496	496	496
1 PW	13	200	457	457	457	457	457	457	457	457	457	457
1 CS	13	0	-55	-17	-47	-65	-70	108	-27	-122	-181	-201
1 CS	13	5	-61	-22	-42	-54	-58	82	-29	-107	-156	-173
1 CS	13	10	-67	-26	-38	-44	-46	56	-32	-93	-131	-144
1 CS	13	15	-74	-31	-33	-34	-34	30	-34	-78	-106	-116
1 CS	13	20	-80	-36	-28	-24	-22	4	-36	-64	-82	-88
1 CS	13	25	-86	-71	-60	-54	-52	1	-73	-125	-157	-168

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START COL	1	2	3	4	5	6	7	8	9	0		
1 CS	13	30	-122	-67	-28	-4	4	-56	-75	-88	-97	-100
1 CS	13	35	-113	-46	2	30	40	-75	-25	11	32	39
1 CS	13	40	-72	-8	37	65	75	-101	15	98	147	163
1 CS	13	45	-51	-9	22	40	46	-152	-8	95	157	177
1 CS	13	50	-107	-52	-12	10	18	-169	-38	55	111	129
1 CS	13	55	-213	-89	0	52	70	-183	-72	8	56	72
1 CS	13	60	-102	-108	-15	41	60	-173	-93	-37	-2	9
1 CS	13	65	-137	-77	15	68	87	-231	-56	68	143	168
1 CS	13	70	-143	-82	19	79	99	-256	-58	82	168	196
1 CS	13	75	-149	-86	24	89	112	-283	-61	97	193	225
1 CS	13	80	-155	-91	29	99	124	-309	-63	112	218	253
1 CS	13	85	-162	-96	34	110	136	-335	-65	126	243	281
1 CS	13	90	-168	-100	38	120	148	-361	-67	141	268	310
1 CS	13	100	-181	-109	48	140	172	-413	-72	170	318	366
1 CS	13	120	-181	-109	48	140	172	-413	-72	170	318	366
1 CS	13	140	-181	-109	48	140	172	-413	-72	170	318	366
1 CS	13	160	-181	-109	48	140	172	-413	-72	170	318	366
1 CS	13	180	-181	-109	48	140	172	-413	-72	170	318	366
1 CS	13	200	-181	-109	48	140	172	-413	-72	170	318	366
1 CL	13	0	308	-207	-576	-796	-869	23	145	235	289	309
1 CL	13	5	289	-202	-553	-763	-832	23	136	218	268	287
1 CL	13	10	270	-197	-530	-729	-795	23	126	202	248	265
1 CL	13	15	251	-191	-507	-696	-759	24	117	185	227	242
1 CL	13	20	232	-186	-484	-663	-722	24	107	169	207	220
1 CL	13	25	283	-150	-459	-644	-705	-18	69	131	169	182
1 CL	13	30	223	-159	-432	-595	-650	74	116	147	165	172

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START COL	1	2	3	4	5	6	7	8	9	0		
1 CL	13	35	56	-202	-385	-495	-532	30	107	163	196	207
1 CL	13	40	96	-183	-382	-502	-542	-4	40	71	90	96
1 CL	13	45	163	-170	-407	-549	-596	34	-30	-76	-102	-111
1 CL	13	50	137	-180	-405	-540	-586	50	-47	-116	-157	-171
1 CL	13	55	126	-144	-335	-450	-489	36	-50	-110	-146	-159
1 CL	13	60	79	-108	-240	-320	-347	-2	-84	-143	-178	-190
1 CL	13	65	60	-138	-277	-361	-390	26	-94	-160	-200	-214
1 CL	13	70	41	-133	-254	-328	-353	26	-111	-180	-222	-237
1 CL	13	75	22	-127	-231	-294	-316	27	-127	-199	-243	-259
1 CL	13	80	3	-122	-208	-261	-280	27	-144	-219	-265	-282
1 CL	13	85	-16	-117	-185	-227	-243	27	-160	-238	-287	-304
1 CL	13	90	-36	-111	-162	-194	-206	27	-177	-258	-309	-327
1 CL	13	100	-74	-101	-116	-127	-132	28	-210	-297	-352	-372
1 CL	13	120	-74	-101	-116	-127	-132	28	-210	-297	-352	-372
1 CL	13	140	-74	-101	-116	-127	-132	28	-210	-297	-352	-372
1 CL	13	160	-74	-101	-116	-127	-132	28	-210	-297	-352	-372
1 CL	13	180	-74	-101	-116	-127	-132	28	-210	-297	-352	-372
1 CL	13	200	-74	-101	-116	-127	-132	28	-210	-297	-352	-372
1 QP	15	1	291	1	807	1	554	1	404	1	353	
1 QP	20	2	248	2	778	2	537	2	392	2	344	
1 QP	25	3	369	3	811	3	506	3	323	3	262	
1 QP	30	6	63	8	675	10	491	11	381	12	344	
1 QP	35	8	49	15	669	20	491	23	385	24	349	
1 QP	40	9	39	22	665	31	491	37	387	39	352	
1 QP	45	8	27	26	645	39	465	47	357	49	321	
1 QP	50	9	839	27	595	40	422	48	317	50	282	

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START COL	1	2	3	4	5	6	7	8	9		
1 QP	55	11	825	26	574	37	395	43	288	45	251
1 QP	60	16	837	31	580	42	396	49	285	51	249
1 QP	65	13	732	26	525	35	378	41	289	43	259
1 QP	70	11	689	21	497	28	360	33	277	34	250
1 QP	75	8	646	16	469	21	342	25	266	26	240
1 QP	80	5	603	10	441	14	325	16	254	17	231
1 QP	85	3	560	5	413	7	307	8	243	9	222
1 QP	90	0	517	0	384	0	289	0	231	0	212
1 QD	15	5	428	2	151	1	823	0	704	0	665
1 QD	20	10	368	5	95	1	770	1	653	1	614
1 QD	25	15	410	7	188	2	30	1	805	1	773
1 QD	30	6	287	5	807	4	557	4	407	3	357
1 QD	35	6	76	9	699	11	523	12	417	13	382
1 QD	40	8	66	15	695	20	522	23	419	24	384
1 QD	45	9	40	24	668	35	496	42	393	44	358
1 QD	50	8	869	28	625	43	450	52	346	55	311
1 QD	55	8	842	26	589	38	408	46	299	48	263
1 QD	60	15	829	19	584	22	409	24	304	24	269
1 QD	65	13	704	16	466	18	296	20	194	20	160
1 QD	70	10	645	13	411	15	243	16	143	16	110
1 QD	75	8	585	10	355	11	191	12	92	12	59
1 QD	80	5	526	6	300	7	138	8	41	8	9
1 QD	85	3	466	3	244	4	85	4	860	4	828
1 QD	90	0	407	0	189	0	33	0	809	0	778
1 QT	15	4	10	3	695	2	563	2	483	2	457
1 QT	20	6	4	6	673	4	529	4	443	4	414

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START COL	1	2	3	4	5	6	7	8	9	0	
1 QT	25	11	18	9	626	7	439	6	327	6	290
1 QT	30	9	9	10	636	10	462	11	357	11	322
1 QT	35	3	853	9	631	14	473	17	378	18	346
1 QT	40	1	810	9	603	16	455	19	367	21	337
1 QT	45	4	3	8	580	10	370	12	245	12	203
1 QT	50	1	784	2	492	3	283	4	157	4	115
1 QT	55	2	811	4	514	4	302	5	175	5	132
1 QT	60	6	18	6	513	5	245	5	85	5	31
1 QT	65	5	822	5	476	4	228	4	80	4	29
1 QT	70	4	817	4	454	3	194	3	40	3	856
1 QT	75	3	811	3	432	3	161	3	869	3	814
1 QT	80	2	805	2	410	2	128	2	829	2	771
1 QT	85	1	799	1	388	1	94	1	788	1	728
1 QT	90	0	794	0	366	0	61	0	748	0	685
1 QU	15	42	655	25	586	14	537	6	507	4	497
1 QU	20	84	504	51	505	27	505	13	506	8	505
1 QU	25	126	325	76	390	41	436	19	463	12	472
1 QU	30	158	205	99	355	57	462	31	526	23	547
1 QU	35	146	79	93	280	56	424	33	511	25	539
1 QU	40	56	843	47	221	40	398	37	505	35	540
1 QU	45	21	591	24	102	26	374	27	537	28	591
1 QU	50	49	289	43	793	39	282	36	498	35	570
1 QU	55	61	421	55	845	51	278	48	460	47	520
1 QU	60	52	159	47	721	44	253	41	494	40	574
1 QU	65	44	7	39	640	36	221	34	493	34	583
1 QU	70	35	725	31	558	29	190	27	492	27	592

DATE: 90/09/10
TIME: 15:23
PAGE: 711

DATASET: CWEJ412.GRAMOD90.DATA
MEMBER: SCIDAT9

START COL	1	2	3	4	5	6	7	8	9	0	
1 QU	75	26	573	24	476	22	158	21	490	20	600
1 QU	80	17	421	16	395	15	127	14	489	13	609
1 QU	85	9	269	8	313	7	95	7	488	7	618
1 QU	90	0	118	0	231	0	63	0	486	0	626
1 QV	15	1	226	3	91	5	866	7	809	7	790
1 QV	20	1	264	6	140	11	53	13	0	14	853
1 QV	25	1	438	9	246	16	109	20	27	21	0
1 QV	30	1	404	9	270	15	175	19	117	20	98
1 QV	35	8	274	13	245	17	225	20	213	20	209
1 QV	40	6	174	16	238	22	284	26	312	28	321
1 QV	45	7	441	11	363	14	308	16	275	16	264
1 QV	50	1	544	19	453	31	389	39	350	41	337
1 QV	55	5	647	11	543	15	469	17	424	18	409
1 QV	60	4	571	9	533	13	507	15	491	15	485
1 QV	65	4	609	8	582	11	564	12	552	13	548
1 QV	70	3	648	6	632	9	621	10	614	10	611
1 QV	75	2	686	5	681	6	678	7	675	8	674
1 QV	80	1	724	3	730	4	734	5	737	5	737
1 QV	85	1	763	2	779	2	791	2	798	3	800
1 QV	90	0	801	0	828	0	848	0	859	0	863

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Report Documentation Page

1. Report No. NASA TM-4268, Part II		2. Government Accession No.		3. Recipient's Catalog No.	
4. Title and Subtitle The NASA/MSFC Global Reference Atmospheric Model—1990 Version (GRAM-90) Part II: Program/Data Listings		5. Report Date June 1991		6. Performing Organization Code	
		8. Performing Organization Report No.		10. Work Unit No. M-657	
9. Performing Organization Name and Address George C. Marshall Space Flight Center Marshall Space Flight Center, Alabama 35812		11. Contract or Grant No.		13. Type of Report and Period Covered Technical Memorandum	
		14. Sponsoring Agency Code NASA			
12. Sponsoring Agency Name and Address National Aeronautics and Space Administration Washington, DC 20546					
15. Supplementary Notes Prepared by Space Science Laboratory, Science and Engineering Directorate. ¹ Georgia Institute of Technology, Atlanta, GA ² New Technology, Inc., Huntsville, AL ³ Marshall Space Flight Center, AL					
16. Abstract A new (1990) version of the NASA/MSFC Global Reference Atmospheric Model (GRAM-90) has been completed and the program and key data base listings are presented in this document. GRAM-90 incorporates extensive new data, mostly collected under the Middle Atmosphere Program (MAP), to produce a completely revised middle atmosphere model (20–120 km). At altitudes greater than 120 km, GRAM-90 uses the NASA Marshall Engineering Thermosphere (MET) model. This report (part II) serves as a supplementary report to the technical document of GRAM-90 (part I). Complete listings of all program and major data bases are presented herein. Also, a test case example is included.					
17. Key Words (Suggested by Author(s)) Global Reference Atmosphere Model, Orbital Altitude Atmosphere Model, pressure, temperature, density, winds, atmospheric perturbations, upper atmosphere, program/data base listing			18. Distribution Statement Unclassified – Unlimited Subject Category: 47		
19. Security Classif. (of this report) Unclassified	20. Security Classif. (of this page) Unclassified		21. No. of pages 816	22. Price A99	

